

**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAM**

**From**

Dr. C.MURUGESAN,  
Professor & Head,  
Department of Electronics & Communication Engineering  
J.K.K. Munirajah College Of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Electronics & Communication Engineering has planned to organize a one week Faculty Development Program (FDP) in the topic of "SENSORS TECHNOLOGY" from **15.04.2024 to 20.04.2024**. For the benefit of our college all department staff updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

Yours Sincerely,

  
(Dr. C. Murugesan)

*Permitted*  
*[Signature]*

*[Signature]*

**Principal**  
**J.K.K.Munirajah College of Technology,**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
**(AUTONOMOUS)**



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**JKKMCT/CIRCULAR/APR-20**

**DATE: 10/04/2024**

**CIRCULAR**

The Department of Electronics & Communication is planning to organize a FDP on "SENSORS TECHNOLOGY" for the benefit of the faculty from 15.04.2024 to 20.04.2024. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 13/04/2024.

  
18/4/24

**PRINCIPAL**

**Principal**

**J.K.K.Munirajah College of Technology**  
**(Autonomous)**

**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board



**Principal**

**J.K.K.Munirajah College of Technology**  
**(Autonomous)**

**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

### Invited Speakers

**Dr.A.R.RANGANATHAN,**  
Ohmtronixs, Shanthi Nivas,  
LIC colony , 3<sup>rd</sup> cross street,  
Pammal, Chennai-600075  
Tamilnadu



### Dr.C.MURUGESAN.,M.E,Ph.D

Professor & Head / ECE

J.K.K. Munirajah College of  
Technology, T.N.Palayam,  
Gobichetipalayam,  
Erode Dt -638 506.

**Phone: 04285 – 260755.**

**Email: [hodece@jkkmct.edu.in](mailto:hodece@jkkmct.edu.in)**

### Registration Committee

*Mrs. R. Kokila* 9976507503

*Mrs. M. Siva Ranjani* 8072078756

### Chief Patrons

**Mrs. Vasantha Kumari**  
**Munirajah,** Chairman, JKKM  
Institutions.

**Mrs. M. Kasthuripriya,**  
Secretary, JKKM Institutions.

**Dr. Kirubakarmurali,** R & D,  
Director, JKKM Institutions.

### Patron

**Dr.C.MURUGESAN.,M.E,Ph.D**  
Professor & Head  
Department of ECE,  
JKKM. College of Technology.

### Conveners

- 1) **Mrs.U.SASIKALA.,M.E**  
Asst.Prof./ECE
- 2) **Mrs.N.GOMATHI.,M.E**  
Asst.Prof./ECE

### Participant/Selection Procedure

Faculty members, Research Scholars and our other institution faculty members. Maximum number of participants is limited to 50, hence, the selection will be based on first-come, first-served basis.

### No Registration Fee

Registration can be made through  
<http://www.jkkmct.org/rec-fdp-2020>

No TA/DA will be given.

### Important Dates

Last date for receipt of filled in applications: **13<sup>th</sup> APR, 2024**

## J.K.K. MUNIRAJAH COLLEGE

## OF TECHNOLOGY

## AUTONOMOUS

**T. N. PALAYAM,**  
**GOBICHETTIPALAYAM,**  
**ERODE DT, TN-638 056**

## FACULTY DEVELOPMENT PROGRAM (FDP)

On

## SENSORS TECHNOLOGY

(15/04/2024 to 20/04/2024)



Organized by

Department of Electronics &  
Communication Engineering  
**Principal**

**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

### About the College

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Anna J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering worldclass quality in Education and Training in a structured and systematic manner J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

### About the Department

The J.K.K. Munirajah college of Technology has introduced the 4 year courses are B.E (Electrical and Electronics Engineering) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Electronics and Communication Engineering Strives towards updating the syllabus. So that the students are always equipped with advanced technology to meet Industrial standard Hi tech Laboratories also render the necessary expertise. To develop the department as a center of excellence to take care of the local and regional needs related to Electrical Engineering activity, and to encourage students and faculty to undertake research Programme & Projects of multi – disciplinary characters

### COURSE CONTENTS

- Navigation sensor technologies
- GNSS Receivers and Locations
- sensor in Android Devices
- Rf sensors and Their applications
- Frequency selective surfaces in remote sensing and sub-surface scanning application
- Electromagnetic sensors
- Wireless Body Sensor Networks
- Low –power GNSS positioning for IoT solution
- Sensor and internet of Things
- Advances in electric vehicles
- FMCW Radars and its applications
- Use of sensors and IoT technology in automotive in this Digital Era

Address for Communication

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### NAAC Accreditation Process

- To clarify the doubts of participants regarding the 7 criteria of Revised Accreditation Guidelines (2020)
- To make the participants self-reliant in preparing of Self Study Report efficiently
- To discuss qualitative and quantitative metrics (QIM and QnM) of revised NAAC Accreditation Guidelines (2020)

### REGISTRATION FORM

## FACULTY DEVELOPMENT PROGRAM (FDP)

On

**15/04/2024 to 20/04/2024**

Name (in BLOCK LETTERS) Mr. / Ms / Dr.

Designation & Department

Name of the Institution/Organization

E-Mail \_\_\_\_\_

Contact Number Office \_\_\_\_\_

Mobile \_\_\_\_\_

Signature

Place:

Signature of Principal



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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506


**TITLE OF THE COURSE: FDP ON "SENSORS TECHNOLOGY"**

**FROM 15.04.2024 TO 20.04.2024**

**SCHEDULE PLAN**

DATE	9.30 TO 11.30 AM		11.45AM TO 1.00 PM		2.00PM TO 4.30PM
15.04.2024	Registration and Inauguration	<b>TEA BREAK</b>	Navigation sensor technologies	<b>LUNCH BREAK</b>	GNSS Receivers and Locations sensor in Android Devices
15.04.2024	Rf sensors and Their applications		Frequency selective surfaces in remote sensing and sub-surface scanning application		Frequency selective surfaces in remote sensing and sub-surface scanning application
15.04.2024	Electromagnetic sensors		Electromagnetic sensors		Wireless Body Sensor Networks.
15.04.2024	Low –power GNSS positioning for IoT solution		Sensor and internet of Things		Advances in electric vehicles
15.04.2024	FMCW Radars and its applications		FMCW Radars and its applications		FMCW Radars and its applications IQAC cell
15.04.2024	Use of sensors and IoT technology in automotive in this Digital Era		Use of sensors and IoT technology in automotive in this Digital Era		Valedictory function and Feedback of the participants

  
**CO-ORDINATOR**

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
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Erode (Dt) - 638 506

  
**PRINCIPAL**



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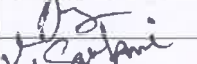
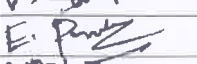



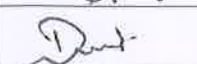



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

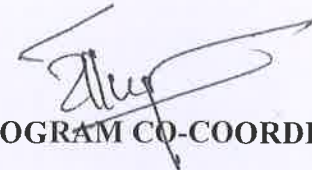
**“SENSORS TECHNOLOGY ”**

**15.04.2024 to 20.04.2024**


**PARTICIPANTS LIST**

S.NO	NAME	DESIGNATION	SIGNATURE
1.	Dr.C.SARAVANAN	PROFESSOR&HEAD OF THE DEPARTMENT	C. Saravanan
2.	Mr.T.S.THAMBIRAN	ASSISTANTPROFESSOR	T.S. Thambiran
3.	Mr.S.M.PRANESH	ASSISTANTPROFESSOR	S.M. Pranesh
4.	Mr.A.VIGNESHKUMAR.	ASSISTANTPROFESSOR	A. Vignesh Kumar
5.	Mr.P. MANIKANDAN	ASSISTANTPROFESSOR	P. Manikandan
6.	Mr.A. CHINNATHAMBI	ASSISTANTPROFESSOR	A. Chinnathambi
7.	Mr.G.PALANISAMY	ASSISTANTPROFESSOR	G. Palanisamy
8.	Mr.R.DHIVYA	ASSISTANTPROFESSOR	R. Dhivya
9.	Mr.G. RAMACHANDRAN	ASSISTANTPROFESSOR	G. Ramachandran
10.	Mrs.P. KARTHIKA	ASSISTANTPROFESSOR	P. Kartika
11.	Ms.M.MOHANAAMBIKA	ASSISTANTPROFESSOR	M.M. Mohana Ambika
12.	Mrs.U.SASIKALA.	ASSISTANT PROFESSOR	U. Sasikala
13.	Mrs.R.KOKILA.	ASSISTANT PROFESSOR	R. Kokila
14.	Mrs.N.GOMATHI	ASSISTANT PROFESSOR	N. Gomathi
15.	Mrs.M.SIVARANJANI	ASSISTANT PROFESSOR	M. Sivaranjani
16.	Ms.S.ABINAYA	ASSISTANT PROFESSOR	S. Abinaya
17.	Mr.P.DHAKSHINAMOORTHY	ASSISTANT PROFESSOR	P. Dhakshinamoorthy
18.	Mrs.N.MYTHILI.	ASSISTANT PROFESSOR	N. Mythili
19.	Mr. V.P.ARUL MURUGAN	ASSISTANT PROFESSOR	V.P. Arul Murugan
20.	Mr.K.GOPALAKRISHNAN	ASSISTANT PROFESSOR	K. Gopalakrishnan
21.	Mr.S.GANESH KUMAR	ASSISTANT PROFESSOR	S. Ganesh Kumar
22.	Mr.P.ESWARAN	ASSISTANT PROFESSOR	P. Eswaran
23.	Mr.K.SRIRAM	ASSISTANT PROFESSOR & HEAD OF THE DEPARTMENT	K. Sriram
24.	Dr.N. SANKAR	ASSISTANT PROFESSOR	N. Sankar

25.	Mr.K.GOVINTHASAMY	ASSISTANT PROFESSOR	
26.	Mr.S.KARTHIKEYAN	ASSISTANT PROFESSOR	
27.	Mr.V. SABARIVASAN	ASSISTANT PROFESSOR	
28.	Mr.E.PRABHURAJ.	ASSISTANT PROFESSOR	
29.	Mr.K.S.RAMESH	ASSISTANT PROFESSOR	
30.	Mr.M.SIVAKUMAR	ASSISTANT PROFESSOR	
31.	Ms. PREJITHA S	PG STUDENT	
32.	Mr.ROOPAN DURAI	PG STUDENT	
33.	Ms. M AMSAVENI	PG STUDENT	
34.	Ms.P DHARANI	PG STUDENT	

  
PROGRAM CO-COORDINATOR

  
PRINCIPAL

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



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Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Title of the Event	"SENSORS TECHNOLOGY"
Date of Event Organized	15/04/2024 to 20/04/2024
No of Participants	34
Venue	Seminar Hall
Name of Chief Guest/Speakers	<b>Dr.A.R.RANGANATHAN,</b> Ohmtronixs, Shanthi Nivas, LIC colony , 3 <sup>rd</sup> cross street, Pammal, Chennai-600075 Tamilnadu

### **Description/Conclusion:**

Sensor technology is important because it allows for the detection, measurement, and monitoring of physical, chemical, and biological phenomena in various industries such as healthcare, manufacturing, automotive, and aerospace. As sensing technology becomes increasingly pervasive in our IoT-powered world, another variable enters the equation: the 5G network. The expected impact of 5G on our world exceeds the scope of this article, but this high-energy, short-distance network will require many low-powered smart sensors to create the IoT infrastructure envisioned in the smart cities of the future. This will require continuous improvements in smart sensory technology, massively increasing the amount of data processed on edge and in the cloud, and smart sensors will become commonplace.

### **The major objectives**

#### **Sensor technology's objectives include:**

- **Improving efficiency, accuracy, and safety:** Sensor technology allows for real-time data collection and analysis, which can improve efficiency, accuracy, and safety in industries such as healthcare, manufacturing , automotive, and aerospace.

- **Developing emerging technologies:** Sensor technology plays a vital role in the development of emerging technologies such as the Internet of Things (IoT) and autonomous systems.
- **Sustainability:** Sustainability is an important goal for sensor development and innovation.




## Role of Sensor Technology in IoT

To understand the importance of the role that sensor technology plays in IoT, it helps to step back and look at what IoT and sensors are. Per the National Institute of Standards and Technology (NIST) in their [Special Publication 800-103, "Network of Things,"](#) IoT can be thought of as, "Systems that involve computation, sensing, communication, and actuation ... IoT involves the connection between humans, nonhuman physical objects, and cyber objects, enabling monitoring, automation, and decision making."

Similarly, NIST [defines a sensor](#) as, "A device, which responds to an input quantity by generating a functionally related output usually in the form of an electrical or optical signal."

  
PROGRAM CO-COORDINATOR

  
PRINCIPAL

  
Principal  
J.K.K.Munirajah College of Technology  
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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAMME**

**From**

Mrs.D. Nivethini,  
Assistant Professor & Head,  
Department of Information Technology,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichettipalayam,  
Erode DT-638 506.

**To**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichettipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Information Technology has planned to organize a one-week Faculty Development Program (FDP) in the topic of "**Block Chain Technology**" from **25.03.2024 to 30.03.2024**. For the benefit of our college all department staff updates their knowledge about the technologies of Block Chain. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

Yours Sincerely,

*Permitted*  
*[Signature]*

*[Signature]*  
**Principal**  
**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

*[Signature]*  
**(Mrs.D.Nivethini)**



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**JKKMCT/CIRCULAR/MAR-2024**

**DATE: 11/03/2024**

**CIRCULAR**

The Department of Information Technology is planning to organize an awareness program on "**Block Chain Technology**" for the benefit of the faculty from **25.03.2024** to **30.03.2024**. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 014/03/2024.

  
PRINCIPAL

**Principal**  
**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**Copy To,**

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All the HoD's and Staff Members,  
IQAC File  
Notice Board

  
Principal

**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## Invited Speakers

1.Mr.R.RAGUNATH

Assistant Professor

Department of Information Technology

Nandha Engineering College

Erode,

2.Mr.M.ManojKumar,

Chief Executive Officer,

AppLogIQ ,

Ramanuja Nagar,Uppilipalayam,

Coimbatore 641015.



## Mail your Registration forms:

Mrs.D.Nivethini,

Assistant Professor /IT

J.K.K. Munirajah College of Technology,

Gobichettipalayam,

Erode Dt -638 506.

Phone: 04285 – 260755.

Email: [hodit@jkkmct.edu.in](mailto:hodit@jkkmct.edu.in)

Registration Committee

Mrs.P. Sangeetha 9677182957

Mrs.M.Renukadevi 9994965917

## Organising Committee

### Chief Patron

Mrs.M.Kasthuripriya,M.B.A.,

Secretary

J.K.K.Munirajah Group of Educational

Institution.

### Patron

Dr.K.Sridharan

Principal,

JKKM. College of Technology.

### Convener

Dr.S.B.Manooj Kumar,

Assistant Professor,

Department of Computer Science and

Engineering,

J.K.K. Munirajah College of Technology.

## Participant/Selection Procedure

Faculty members, Research Scholars and our other institution faculty members. Maximum number of participants is limited to 50, hence, the selection will be based on first-come, first-served basis.

## No Registration Fee

Registration can be made through

<http://www.jkkmct.org/rec-fdp-2024>

No TA/DA will be given.

## Important Dates

Last date for receipt of filled in applications: th 21MAR 2024

Date of intimation regarding selection:

22th MARCH, 2024

## FACULTY DEVELOPMENT PROGRAM (FDP) ON BLOCK CHAIN TECHNOLOGY


25.03.2024 to 30.03.2024

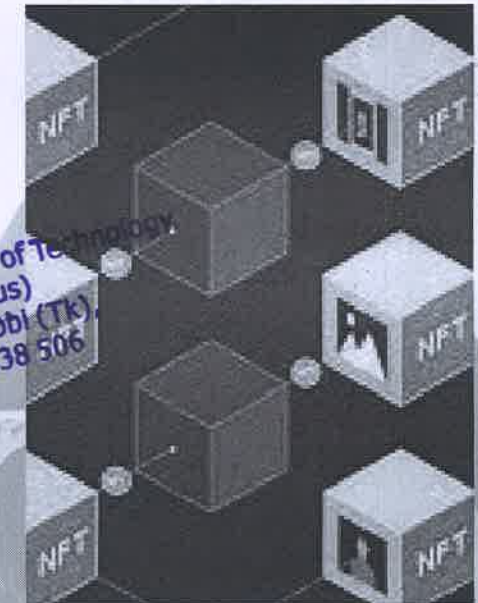
ORGANIZED BY

DEPARTMENT OF INFORMATION TECHNOLOGY

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY T. N. PALAYAM

GOBICHETTIPALAYAM, ERODE DT, TN-638 056

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
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### About the College

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### About the Department

The J.K.K.Munirajah college of Technology has introduced the 4 year courses are B.TECH (Information Technology) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Computer Science Engineering strives towards updating the syllabus. So that the students are always equipped with advanced technology to meet industrial standard Hi tech Laboratories also render the necessary expertise

### ABOUT THE FDP

Faculty Development Program (FDP) on Blockchain Technology is designed to provide educators and academic professionals with a deep understanding of blockchain concepts, applications, and its potential to transform various industries. The program aims to familiarize participants with blockchain fundamentals, such as decentralization, cryptographic security, and consensus mechanisms, while also exploring real-world applications in sectors like finance, healthcare, supply chain, and education. Through hands-on workshops and expert-led sessions, faculty members gain practical experience in developing decentralized applications (dApps), deploying smart contracts, and using blockchain platforms like Ethereum and Hyperledger. Additionally, the FDP covers important aspects such as research opportunities, ethical and legal challenges, and the integration of blockchain with emerging technologies like Artificial Intelligence and the Internet of Things.

### The Major Objectives

- Provide participants with a solid foundation in blockchain concepts such as decentralization, distributed ledgers.
- Support faculty in designing and integrating blockchain technology content into existing or new academic courses and programs.

**FACULTY DEVELOPMENT PROGRAM (FDP) ON BLOCK CHAIN TECHNOLOGY**  
 (25.03.2024 TO 30.03.2024)  
 ORGANIZED BY  
 DEPARTMENT OF INFORMATION TECHNOLOGY

**J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY T. N. PALAYAM**

**GOBICHETTIPALAYAM, ERODE DT, TN-638 056**

Name (in BLOCK LETTERS) Mr. / Ms / Dr

Designation & Department

Name of the Institution/Organization

E-Mail

Contact Number

Signature

Place:

Signature of Principal



# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

(AUTONOMOUS)

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

## BLOCK CHAIN TECHNOLOGY

25.03.2024 TO 30.03.2024

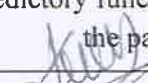
### SCHEDULE PLAN



DATE	9.30 TO 11.30 AM		11.45AM TO 1.00 PM		2.00PM TO 4.30PM
25.03.2024	Registration and Inauguration	TEA BREAK	Introduction to Blockchain and its origin	LUNCH BREAK	Prerequisites of Blockchain Tech Introduction to Crypto Currencies
26.03.2024	Deep dive into Blockchain Privacy and trust in Blockchain		Scope and Applications of Blockchain		Introduction to Ethereum
27.03.2024	Setting up tools for Ethereum		Difference between Ethereum and Bitcoin Protocol, architectural distinction		Basics of solidity and Advanced solidity
28.03.2024	Developing a DApp using Remix		Installation of Truffle Framework, Generate the boilerplate code		Developing a DApp using Truffle
29.03.2024	Compile and deploy the contracts		Run the DApp Modify the DApp code Hyper Ledger Fabric		Cyber-attacks to Blockchain insider Threads-Case Studies
30.03.2024	Cryptography Algorithms and Protocols		Security and Reliability in Blockchain		Valedictory function and Feedback of the participants

  
CO-ORDINATOR

  
Principal  
J.K.K. Munirajah College of Technology  
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**BLOCK CHAIN TECHNOLOGY**

(25.03.2024 to 30.03.2024)

**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	Dr.N.SATHYABALAJI	ASSOCIATE PROFESSOR AND HOD	
2.	Mr.R.GNANASEKAR	ASSISTANT PROFESSOR	
3.	Mr.S.DHARANITHARAN	ASSISTANT PROFESSOR	
4.	Mr.S.B.MANOOJKUMAAR	ASSISTANT PROFESSOR	
5.	Ms.V.NIROSHA	ASSISTANT PROFESSOR	
6.	Mrs.P.POORNAPRIYA	ASSISTANT PROFESSOR	
7.	Mr. SATHEESH S	ASSISTANT PROFESSOR	
8.	Ms.K.S.VINOTHAN	ASSISTANT PROFESSOR	
9.	Mrs.M.C.SAVITHRI	ASSISTANT PROFESSOR	
10.	Mr.E.ANANTH	ASSISTANT PROFESSOR	
11.	Mrs. SASIREKA	ASSISTANT PROFESSOR	
12.	Ms.S.ABINAYA.,	ASSISTANT PROFESSOR	
13.	Mr.P.DHAKSHINAMOORTHY	ASSISTANT PROFESSOR	
14.	Mrs.N.MYTHILI	ASSISTANT PROFESSOR	
15.	Mrs.D.NIVETHINI	ASSISTANT PROFESSOR	
16.	Mrs.S.KANIMOZHI	ASSISTANT PROFESSOR	
17.	Mr.V.ESWARAMURTHY	ASSISTANT PROFESSOR	
18.	Mr.A.SAMBATHKUMAR	ASSISTANT PROFESSOR	
19.	Mrs.M.RENUKADEVI	ASSISTANT PROFESSOR	
20.	Mr.S.SUDHAKAR	ASSISTANT PROFESSOR	
21.	Mr.S.PRADEEPAN	ASSISTANT PROFESSOR	
22.	Mr.K.R.VIGNESHWARA	ASSISTANT PROFESSOR	
23.	Mr.M.SENTHILKUMAR	ASSISTANT PROFESSOR	
24.	Mrs. ARCHANA	ASSISTANT PROFESSOR	
25.	Mr.I.MANIKANDAN.,	ASSISTANT PROFESSOR	

PROGRAM CO-COORDINATOR

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

PRINCIPAL

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

(AUTONOMOUS)



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

Name of Institution	J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	Block Chain Technology
Date of Event Organized	25/03/2024 to 30/03/2024
No of Participants	25
Venue	Seminar Hall
Name of Chief Guest/Speakers	1.Mr.R.RAGUNATH Assistant Professor, Department of Information Technology, Nandha Engineering College, Erode, 2.Mr.M.MANOJKUMAR, Chief Executive Officer, AppLogiQ, Ramanuja Nagar, Uppilipalayam, Coimbatore 641015.

### Description/Conclusion:

Blockchain technology is a decentralized, distributed ledger system that securely records and verifies transactions across a network of computers, ensuring transparency, security, and immutability. Each transaction is stored in a "block," which is linked to the previous block, forming a chain. The system operates without a central authority, allowing peer-to-peer interactions while utilizing cryptography to secure data and control access. Blockchain's decentralized nature makes it resistant to tampering, fraud, and unauthorized changes. Its applications extend beyond cryptocurrencies like Bitcoin to industries such as supply chain management, healthcare, digital identity verification, and finance, where it enables secure, transparent, and efficient processes. Despite challenges like scalability and energy consumption, blockchain is increasingly recognized for its transformative potential in various sectors, promising enhanced security, reduced costs, and greater trust in digital transactions.

Principal

J.K.K. Munirajah College of Technology  
(Autonomous)

T.N. Palayam, Gobi (Tk),



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**DEPARTMENT OF INFORMATION TECHNOLOGY**

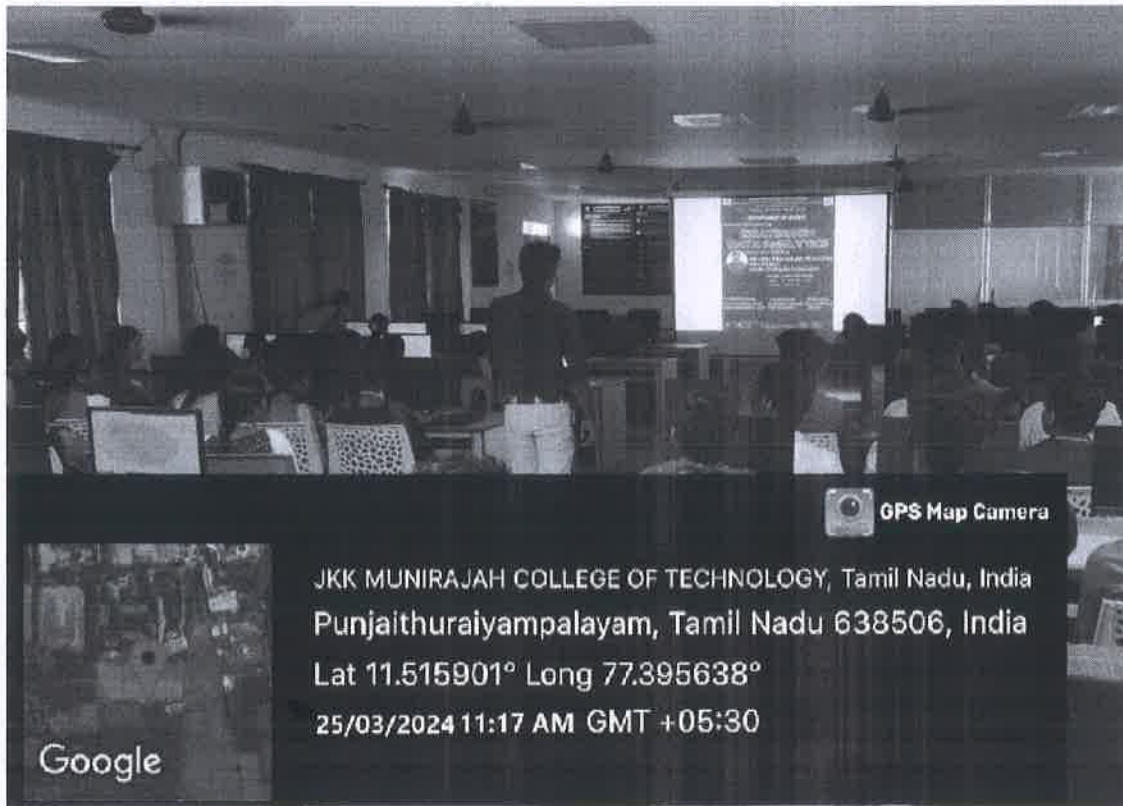
**EVENT : FACULTY DEVELOPMENT PROGRAM**

**TOPIC : Block Chain Technology**

**DATE : 25.03.2024 to 30.03.2024**

**THE RESOURCE PERSON : Mr.M.MANOJKUMAR,**

**NO.OF FACULTY BENIFITTED : 25**



**Principal**

**J.K.K.Munirajah College of Technology**  
**(Autonomous)**

**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## The major objectives

- Blockchain aims to streamline processes by automating and simplifying workflows, such as through the use of smart contracts. These self-executing contracts trigger actions when predefined conditions are met, reducing the need for intermediaries and making transactions faster and more efficient.
- Blockchain allows individuals and organizations to have greater control over their data. Through the use of cryptographic keys, users can choose when and with whom to share their information, enhancing privacy and security.
- Blockchain uses cryptographic techniques to secure data, making it nearly impossible to alter past transactions once they are recorded. This objective ensures data integrity, preventing fraud and unauthorized changes, which is especially crucial in industries like finance, healthcare, and supply chains.

## Benefits of Block Chain Technologies

- **Creative Content Generation**
  - Art, design, music, and writing creation.
- **Automation of Routine Tasks**
  - Text generation, code creation, and customer support automation.
- **Personalization**
  - Tailored marketing, product recommendations, and user experiences.
- **Enhanced Problem Solving and Innovation**
  - Simulation, modeling, and product development.
- **Cost and Time Efficiency**
  - Faster development, reduced operational costs, and resource savings.
- **Data Synthesis and Augmentation**
  - Generation of synthetic data and improved data augmentation for AI models.
- **Improved Decision-Making**
  - Predictive analytics, scenario modeling, and risk assessment.
- **Enhanced Accessibility**
  - Language translation, transcription, and assistive technologies.



**PROGRAM CO-COORDINATOR**



**PRINCIPAL**

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)**

**T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**



**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT PROGRAM

**From**

Mr.V.MAGESH,  
Assistant Professor & Head,  
Department of Automobile Engineering,  
J.K.K: Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**Respected Sir,**



**SUB:** Requesting Permission to conduct FDP-Reg.


The department of Automobile Engineering has planned to organize a six days Faculty Development Program (FDP) in the topic of "ELECTRIC & HYBRID VEHICLE-DESIGN" from **18.03.2024 to 23.03.2024** for the benefit of our college department faculty updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

**Thank You**

Yours Sincerely,

  
(Mr. V. Magesh)

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

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**JKKMCT/CIRCULAR/FEB-2024**

**DATE: 07/02/2024**

**CIRCULAR**

The Department of Automobile Engineering is planning to organize a Faculty Development program on "ELECTRIC & HYBRID VEHICLE-DESIGN" for the benefit of faculty members from 18.03.2024 to 23.03.2024. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 12/02/2024.

  
PRINCIPAL

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

## ABOUT THE COLLEGE

J.K.K.Munirajah College of Technology (Autonomous) was established in 2008 and is governed by the Annai J.K.K. Sampoorani Ammal Charitable Trust. Founded by J.K.K.Munirajah a prominent industrialist, technocrat, an distinguished educationalist, and dedicated social worker, and a Philanthropist with deep spiritual values. The institution aims to deliver world class education and training in a structured and systematic manner. The management has proudly completed 25 years of dedicated service to the people of India and abroad in the field of education. Spanning 250 acres of lush green land, the college offers state-of-the-art infrastructure and has earned recognition as one of the esteemed educational institutions for men and women in India. Our institute is accredited with an "A" grade by NAAC and is an ISO-certified Institution.

## ABOUT THE DEPARTMENT

The Automobile Engineering Department was started in the year 2010. The department offers four years B. E -Automobile Engineering. The department has a team of highly qualified,

dedicated and motivated faculty and well equipped laboratories with facilities for UG. B.E has been accredited by AICTE, New Delhi. The goal of the Automobile engineering curriculum is to create a flexible undergraduate educational experience in design, mathematics, modeling, computing, management, and engineering science. Principal study topics include fluid mechanics, thermodynamics & heat transfer, solid mechanics, materials engineering, manufacturing, energy systems, dynamics & computer Aided Design (CAD) and others.

## ABOUT THE PROGRAMME

This FDP on Electric and Hybrid Vehicles is designed to empower faculty members with the skills and knowledge to teach and research in the dynamic field of electric mobility. The program will not only update them on the technological advancements but also inspire innovative approaches to sustainable vehicle design. Faculty will develop a deep understanding of the design and development of electric and hybrid vehicles. Faculty members will be encouraged to explore EV/HEV-focused research, contributing to innovation in electric mobility.

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM

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## FACULTY DEVELOPMENT PROGRAM

On

SIX DAYS FDP ON

ELECTRIC & HYBRID VEHICLE-DESIGN

18-03-2024 to 23-03-2024



Organized by


Department Of Automobile Engineering

J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY

Tel No: 04285-260754-55, Fax: 04285-

260755. E-mail: [jkkmct@gmail.com](mailto:jkkmct@gmail.com),

Website: [www.jkkmct.org](http://www.jkkmct.org)

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**ORGANIZING COMMITTEE**

**Convener :** Mr.V.MAGESH,  
Assistant Professor & Head,  
Automobile Engineering,  
JKKMCT.

**Coordinators:** Mr.V.P.ARULMURUGAN, AP/AUTO  
Mr.S.GANESHKUMAR, AP/AUTO

**SIX DAYS FDP**

On

**ELECTRIC & HYBRID VEHICLE-DESIGN**

Department Of Automobile Engineering

**J.K.K. MUNIRAJAH COLLEGE**

**OF TECHNOLOGY,**

**T.N.PALAYAM**

MOBILE: 9095057585

EMAIL : hodauto@jkkmct.edu.in

**SESSION DETAILS**

1. Introduction to Electric and Hybrid Vehicles
2. Electric Vehicle Architecture and Components
3. Hybrid Electric Vehicle (HEV) Design
4. Sustainable Design and Environmental Impact
5. Evaluation and Feedback

**RESOURCE PERSONS**

**MR.P.J.RAJENDRAN**

Senior Manager

EVI Technologies, Coimbatore.



**IMPORTANT DATES**

Last Date for Registration: 15-02-2024

**Principal**  
**J.K.K.Munirajah College of Technolo**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**J.K.K. MUNIRAJAH COLLEGE OF**

**TECHNOLOGY**

**T.N.PALAYAM**

**SIX DAYS FDP ON**

On

**ELECTRIC & HYBRID VEHICLE-DESIGN**

**18-03-2024 to 23-03-2024**

**REGISTRATION FORM**

Name: .....

Gender: **MALE/FEMALE**

Qualification: .....

Address for Communication:

.....

.....

.....

PIN.....

Email.....

Mobile No.....

Date:

Place:

**Signature of the Applicant**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

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**SIX DAYS FDP ON  
ELECTRIC & HYBRID VEHICLE-DESIGN  
18.03.2024 to 23.03.2024**

**SCHEDULE PLAN**

Date/Time	10.00am-11.30m	11.30am-11.45am	11.45am-1.00pm	1.00pm-2.00pm	2.00pm-4.00pm
18.03.2024	Inaugural Function	Tea Break	Overview of Electric & Hybrid Vehicles	Lunch	Principles of Hybrid Vehicle Technology
19.03.2024	Electric Vehicle Power train Architecture	Tea Break	Battery Management Systems (BMS) & Safety Protocols	Lunch	EV Charging Infrastructure
20.03.2024	Power Electronics in EV & HEV Systems	Tea Break	Smart Charging Systems and Vehicle-to-Grid (V2G)	Lunch	Autonomous Driving Technologies in EVs & HEVs
21.03.2024	Introduction to EV/HEV Simulation Tools (MATLAB/Simulink)	Tea Break	Design and Simulation of Battery Management Systems	Lunch	Hands-on Session: EV Motor Design & Testing
22.03.2024	Sustainable Design Practices in EV/HEV Development	Tea Break	Future of Electric Mobility: Trends and Research	Lunch	EV/HEV Research & Development Opportunities
23.03.2024	Hands-on Session: EV Motor Design & Testing	Tea Break	Panel Discussion: Industry-Academia Collaboration	Lunch	Closing Remarks & Certificate Distribution

*VP/MS*  
**PROGRAM CO-ORDINATOR**

*[Signature]*  
**PRINCIPAL**

*[Signature]*  
**Principal**  
**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**



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**SIX DAYS FDP ON  
"ELECTRIC & HYBRID VEHICLE-DESIGN"  
18.03.2024 to 23.03.2024**

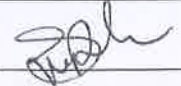
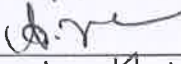
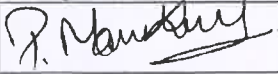
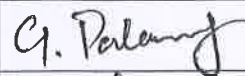

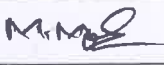
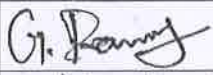
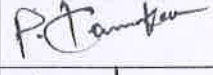

**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	Mr.V.MAGESH	HOD /AUTO	
2.	Mr.V.P.ARUL MURUGAN	Assistant Professor	
3.	Mr.P.ESWARAN	Assistant Professor	
4.	Mr.S.GANESH KUMAR	Assistant Professor	
5.	Mr.K.GOPALA KRISHNAN	Assistant Professor	
6.	Dr.N.SANKAR	Assistant Professor	
7.	Mr.K.SRIRAM	HOD/ MECH	
8.	Mr.M.SIVAKUMAR	Assistant Professor	
9.	Mr.S.KARTHIKEYAN	Assistant Professor	
10.	Mr.K.S.RAMESH	Assistant Professor	
11.	Mr.E.PRABHURAJ	Assistant Professor	
12.	Mr.P.SURESH	Assistant Professor	
13.	Mr.N.RAMASAMY	Assistant Professor	
14.	Mr.E.DEEPARAJ	Assistant Professor	
15.	Dr.C.SARAVANAN	HOD/ EEE	
16.	Mr.T.S.THAMBIRAN	Assistant Professor	

**Principal**


**J.K.K.Munirajah College of Technology  
(Autonomous)**

T.N. Palayam, Gobi (Tk)

17.	Mr.S.M.PRANESH	Assistant Professor	
18.	Mr.A.VIGNESHKUMAR	Assistant Professor	
19.	Mr.P.MANIKANDAN	Assistant Professor	
20.	Mr.G.PALANISAMY	Assistant Professor	
21.	Mr.R.DHIVYA.	Assistant Professor	
22.	Ms.M.MOHANAAMBIKA	Assistant Professor	
23.	Mr.G. RAMACHANDRAN	Assistant Professor	
24.	Mrs.P.KARTHIKA	Assistant Professor	
25.	Mr.A.CHINNATHAMBI	Assistant Professor	

  
PROGRAM CO-ORDINATOR

  
PRINCIPAL

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
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Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	<b>ELECTRIC &amp; HYBRID VEHICLE- DESIGN</b>
Date of Event Organized	18-03-2024 to 23-03-2024
No of Participants	25
Venue	Mechanical smart class
Name of Chief Guest/Speakers	<b>MR.P.J.RAJENDRAN</b> Senior Manager EVI Technologies, Coimbatore.

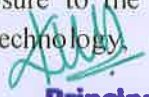
**Description/Conclusion:**

**Purpose of the FDP:** This Faculty Development Program aims to familiarize faculty members with the latest trends and technologies in Electric and Hybrid Vehicles (EVs and HEVs). The goal is to equip participants with the necessary knowledge to enhance their teaching and research capabilities in these cutting-edge fields.

**Overview of Electric and Hybrid Vehicles:** EVs and HEVs are transforming the automotive industry, providing sustainable solutions to reduce emissions, improve fuel efficiency, and promote clean energy. This FDP focuses on understanding the principles of electric drive systems, battery technology, hybrid propulsion systems, and the integration of renewable energy sources in vehicles.

**Objectives of the FDP**

- **Knowledge Acquisition:** Participants will gain an in-depth understanding of the principles and technologies used in electric and hybrid vehicles.
- **Hands-On Exposure:** Practical exposure to the design and working of electric and hybrid vehicles, including battery technology, electric drive systems, and energy management.

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

- **Research Development:** Encourage faculty to explore potential research topics related to EVs and HEVs, fostering collaboration and innovation in the field.
- **Curriculum Enhancement:** Assist faculty in developing and updating academic curricula to incorporate emerging technologies in electric and hybrid vehicle design.

#### **Session 1: Design and Simulation Tools for EVs/HEVs**

- ✓ Introduction to simulation software for EV and HEV design (e.g., MATLAB, Simulink, ADVISOR).
- ✓ Hands-on exercises to simulate and optimize vehicle performance.

#### **Session 2: Battery Management Systems (BMS)**

- ✓ Design and implementation of Battery Management Systems for electric vehicles.
- ✓ Challenges in battery life, charging, and safety protocols.

#### **Session 3: Electric Motor Design**

- ✓ Principles of electric motors used in EVs and HEVs.
- ✓ Design considerations for high-performance motors.

#### **Session 4: Smart Charging Infrastructure**

- ✓ Design and implementation of charging stations for electric vehicles.
- ✓ Fast-charging technologies and wireless charging systems.

### **5. Expert Sessions**

#### **Session 1: Industry Insights on EV and HEV Design**

Inviting industry experts to provide insights on the current trends and challenges in the EV/HEV market.

#### **Session 2: Future of Electric Mobility: Research and Development**

A discussion on the latest R&D projects and technological innovations shaping the future of electric and hybrid vehicles.

### **Conclusion**

This FDP on Electric and Hybrid Vehicles is designed to empower faculty members with the skills and knowledge to teach and research in the dynamic field of electric mobility. The program will not only update them on the technological advancements but also inspire innovative approaches to sustainable vehicle design.



**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT PROGRAM

**From**

Mrs. V. MOHANAPRIYA  
Assistant Professor & Head,  
Department of Civil Engineering,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichettipalayam,  
Erode - 638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichettipalayam,  
Erode - 638 506.

OK  
[Signature]

**Respected Sir,**

**SUB:** Requesting Permission to conduct FDP-Reg.

The Department of Civil Engineering has planned to organize a six days Faculty Development Program (FDP) in the topic of **“EMERGING TRENDS AND APPLICATIONS IN CIVIL ENGINEERING”** from **11.03.2024 to 16.03.2024** for the benefit of our college department faculty updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

**Thank You**

Yours Sincerely,

[Signature]

(Mrs. V. Mohanapriya)

[Signature]  
**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
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Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**JKKMCT/CIRCULAR/FEB-2024**

**DATE: 07/02/2024**

**CIRCULAR**

The Department of Civil Engineering is planning to organize a Faculty Development program on “**EMERGING TRENDS AND APPLICATIONS IN CIVIL ENGINEERING**” for the benefit of faculty members from **11.03.2024 to 16.03.2024**. All the department staff members those who are interested to attend the program can enroll their names to their respective HOD's on or before 05/02/2024.

*[Handwritten signature]*  
#12/24

**PRINCIPAL**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

*[Handwritten signature]*

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## ABOUT THE COLLEGE

J.K.K.Munirajah College of Technology (Autonomous) was established in 2008 and is governed by the Annai J.K.K. Sampoorani Ammal Charitable Trust. Founded by J.K.K.Munirajah a prominent industrialist, technocrat, an distinguished educationalist, and dedicated social worker, and a Philanthropist with deep spiritual values. The institution aims to deliver world class education and training in a structured and systematic manner. The management has proudly completed 25 years of dedicated service to the people of India and abroad in the field of education. Spanning 250 acres of lush green land, the college offers state-of-the-art infrastructure and has earned recognition as one of the esteemed educational institutions for men and women in India. Our institute is accredited with an "A" grade by NAAC and is an ISO-certified Institution.

## ABOUT THE DEPARTMENT

The Civil Engineering Department was started in the year 2008. The department offers four years B. E - Civil Engineering. The department has a team of highly qualified, dedicated and

motivated faculty and well equipped laboratories with facilities for UG. B.E has been accredited by AICTE, New Delhi. The goal of the Civil Engineering curriculum is to create a flexible undergraduate educational experience in design, mathematics, modeling, computing, management, and engineering science. Principal study topics include fluid mechanics, highway engineering, strength of materials, hydrology & computer Aided Design (CAD) and others.

## ABOUT THE PROGRAMME

This FDP on Emerging trends and applications in civil engineering are Sustainable and Resilient Infrastructure, Digitalization and Technology, Innovative Construction Methods, Smart Cities and Urban Planning, Water and Environmental Engineering, Geotechnical and Structural Engineering. These emerging trends and applications are transforming the civil engineering profession, enabling the creation of more sustainable, resilient, and innovative infrastructure solutions.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

**T.N.PALAYAM**

Accredited by NAAC with "A" grade

## FACULTY DEVELOPMENT PROGRAM

On

**SIX DAYS FDP ON**

**EMERGING TRENDS AND APPLICATIONS IN  
CIVIL ENGINEERING**

**11-03-2024 to 16-03-2024**



Organized by

**Department Of Civil Engineering**

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY**

Tel No: 04285-260754-55, Fax: 04285-  
260755. E-mail: [jkkmct@gmail.com](mailto:jkkmct@gmail.com),  
Website: [www.jkkmct.org](http://www.jkkmct.org)

**ORGANIZING COMMITTEE**

**Convener :** Mrs.V.MOHANAPRIYA,  
Assistant Professor & Head,  
Civil Engineering,  
JKMCT.

**Coordinators:** Mrs.P.REENA, AP/CIVIL  
Mr.V.SATHIYAPRIYA, AP/CIVIL

**SIX DAYS FDP**

On

**EMERGING TRENDS AND APPLICATIONS IN  
CIVIL ENGINEERING**

Department of Civil Engineering

**J.K.K. MUNIRAJAH COLLEGE  
OF TECHNOLOGY,  
T.N.PALAYAM**

MOBILE: 8675834476

EMAIL : hodcivil@jkkmct.edu.in

**SESSION DETAILS**

- 1.Introduction to Current Trends in Civil Engineering
- 2.Sustainable Construction & Green Practices
- 3.Digital Transformation in Civil Engineering
- 4.Smart Infrastructure and Advanced Analysis
5. Evaluation and Feedback

**RESOURCE PERSONS**

**Mr.B.KESAVAMOORTHY**

**Managing Director, SK Construction,**

**Thirupur**



**IMPORTANT DATES**

Last Date for Registration: 15-02-2024

**Principal**

**J.K.K.Munirajah College of Technolo  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY**

**T.N.PALAYAM**

**SIX DAYS FDP ON**

On

**EMERGING TRENDS AND APPLICATIONS IN  
CIVIL ENGINEERING**

**11-03-2024 to 16-03-2024**

**REGISTRATION FORM**

Name: .....

Gender: **MALE/FEMALE**

Qualification: .....

Address for Communication:

.....

.....

.....

PIN.....

Email.....

Mobile No.....

Date:

Place:

**Signature of the Applicant**



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
**(AUTONOMOUS)**



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

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**SIX DAYS FDP ON**  
**EMERGING TRENDS AND APPLICATIONS IN CIVIL ENGINEERING**

**11.03.2024 to 16.03.2024**

**SCHEDULE PLAN**

Date/Time	10.00am-11.30m	11.30am-11.45am	11.45am-1.00pm	1.00pm-2.00pm	2.00pm-4.00pm
11.03.2024	Inaugural Function	Tea Break	Overview of FDP Objectives & Keynote on Current Trends in Civil Engineering	Lunch	Smart Materials and Nano technology in Construction
12.03.2024	Case Studies of Smart Buildings	Tea Break	Green Building Materials and Sustainable Design	Lunch	Environmental Impact Assessment (EIA)
13.03.2024	Building Information Modelling (BIM) and Digital Twins	Tea Break	Hands-on Session with BIM Software	Lunch	Drone Technology and Remote Sensing in Civil Projects
14.03.2024	Application of UAVs in Surveying and Monitoring	Tea Break	Smart Cities and IoT Applications	Lunch	Development of Smart Highways and Bridges
15.03.2024	Advanced Structural Analysis and Earthquake Engineering	Tea Break	Finite Element Analysis (FEA) for Structural Integrity	Lunch	Software Demonstration (ETABS/STAAD Pro)
16.03.2024	Geopolymer Concrete and Waste Management in Construction	Tea Break	Emerging Research Areas and Closing Ceremony	Lunch	Closing Remarks & Certificate Distribution

**PROGRAM CO-ORDINATOR**

**PRINCIPAL**

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**



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**SIX DAYS FDP ON**

**" EMERGING TRENDS AND APPLICATIONS IN CIVIL ENGINEERING**

**11.03.2024 to 16.03.2024**

**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	MOHANAPRIYA V	HOD / CIVIL	
2.	NANDHAKUMAR R	Assistant Professor	
3.	RUTHISHKUMAR G	Assistant Professor	
4.	SATHIYAPRIYA V	Assistant Professor	
5.	VENKATESH R	Assistant Professor	
6.	REENA P	Assistant Professor	
7.	G.HARNI	Assistant Professor	
8.	N.DHIVYABHARATHI	Assistant Professor	

PROGRAM CO-ORDINATOR

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

PRINCIPAL



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Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	<b>EMERGING TRENDS AND APPLICATIONS IN CIVIL ENGINEERING</b>
Date of Event Organized	11-03-2024 to 16-03-2024
No of Participants	08
Venue	SEMINAR HALL
Name of Chief Guest/Speakers	<b>Mr.B.KESAVAMOORTHY</b> Managing Director, SK Construction, Thirupur

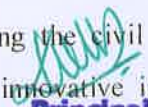
**Description/Conclusion:**

**Purpose of the FDP**

The purpose of this FDP is to update civil engineering faculty members on the latest trends, technologies, and applications in the field, enabling them to enhance their teaching, research, and industry collaboration.

**Overview of Emerging Trends and applications in Civil Engineering:**

Emerging trends and applications in civil engineering are Sustainable and Resilient Infrastructure, Digitalization and Technology, Innovative Construction Methods, Smart Cities and Urban Planning, Water and Environmental Engineering, Geotechnical and Structural Engineering. These emerging trends and applications are transforming the civil engineering profession, enabling the creation of more sustainable, resilient, and innovative infrastructure solutions.

  
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**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
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**Erode (Dt) - 638 506**

## **Objectives of the FDP**

### **1. Awareness of Modern Trends**

To familiarize participants with emerging technologies and trends shaping the future of civil engineering.

### **2. Skill Enhancement**

To develop skills for integrating advanced tools and techniques like BIM (Building Information Modeling), 3D printing, and IoT into teaching and professional practice.

### **3. Sustainability Focus**

To promote understanding of sustainable construction practices and eco-friendly materials for reducing environmental impact.

### **4. Exposure to Smart Technologies**

To explore smart city concepts, digital twins, and real-time monitoring systems for efficient infrastructure management.

### **5. Research and Innovation**

To encourage participants to engage in cutting-edge research and innovation in civil engineering applications.

### **6. Industry-Academia Collaboration**

To foster partnerships between academia and industry for the application of emerging trends in real-world projects.

### **7. Professional Development**

To update faculty on the latest industry practices and tools, ensuring that students are prepared for modern civil engineering challenges.

### **8. Global Perspective**

To provide insights into global advancements and how they can be adapted to local contexts.

### **9. Problem-Solving Applications**

To demonstrate how new technologies can address practical challenges like urbanization, resource scarcity, and climate change.

### **10. Enhancing Pedagogy**

To improve teaching methods by incorporating advanced trends and practical examples into civil engineering curricula.

  
**Principal**  
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**Erode (Dt) - 638 506**

### **Session 1**

**Topic:** Inauguration and Keynote Address

- Overview of FDP Objectives
- Keynote on Current Trends in Civil Engineering
- Q&A

**Topic:** Smart Materials and Nanotechnology in Construction

- Introduction to Smart Materials
- Application of Nanotechnology in Cement and Concrete
- Case Studies of Smart Buildings

## **Day 2: Sustainable Construction & Green Practices**

### **Session 1**

**Topic:** Green Building Materials and Sustainable Design

- Green Concrete and Use of Recycled Materials
- Sustainable Urban Planning
- LEED Certifications and Global Standards

### **Session 2**

**Topic:** Environmental Impact Assessment (EIA)

- Introduction to EIA and Lifecycle Analysis
- Strategies for Reducing Carbon Footprints
- Real-World Examples and Projects

## **Day 3: Digital Transformation in Civil Engineering**

### **Session 1**

**Topic:** Building Information Modelling (BIM) and Digital Twins

- Fundamentals of BIM
- Introduction to Digital Twins in Infrastructure
- Hands-on Session with BIM Software

  
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**J.K.K.Munirajah College of Technology**  
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**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## **Session 2**

**Topic:** Drone Technology and Remote Sensing in Civil Projects

- Application of UAVs in Surveying and Monitoring
- Remote Sensing for Land Use and Structural Analysis
- Live Demonstration/Case Study

## **Day 4: Smart Infrastructure and Advanced Analysis**

### **Session 1**

**Topic:** Smart Cities and IoT Applications

- IoT in Infrastructure Monitoring
- Development of Smart Highways and Bridges
- Implementation Challenges

### **Session 2**

**Topic:** Advanced Structural Analysis and Earthquake Engineering

- Earthquake-Resistant Design
- Finite Element Analysis (FEA) for Structural Integrity
- Software Demonstration (ETABS/STAAD Pro)

## **Day 5: Research & Industry Trends**

### **Session 1**


**Topic:** Geopolymer Concrete and Waste Management in Construction

- Geopolymer and Alternative Binders
- Managing Construction and Demolition Waste
- Future Trends

### **Session 2**

**Topic:** Emerging Research Areas and Closing Ceremony

- Overview of Ongoing Research
- Panel Discussion with Industry Experts
- Feedback & Valedictory Session

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## 5. Expert Sessions

### Session 1: Green Buildings & Resilient Infrastructure

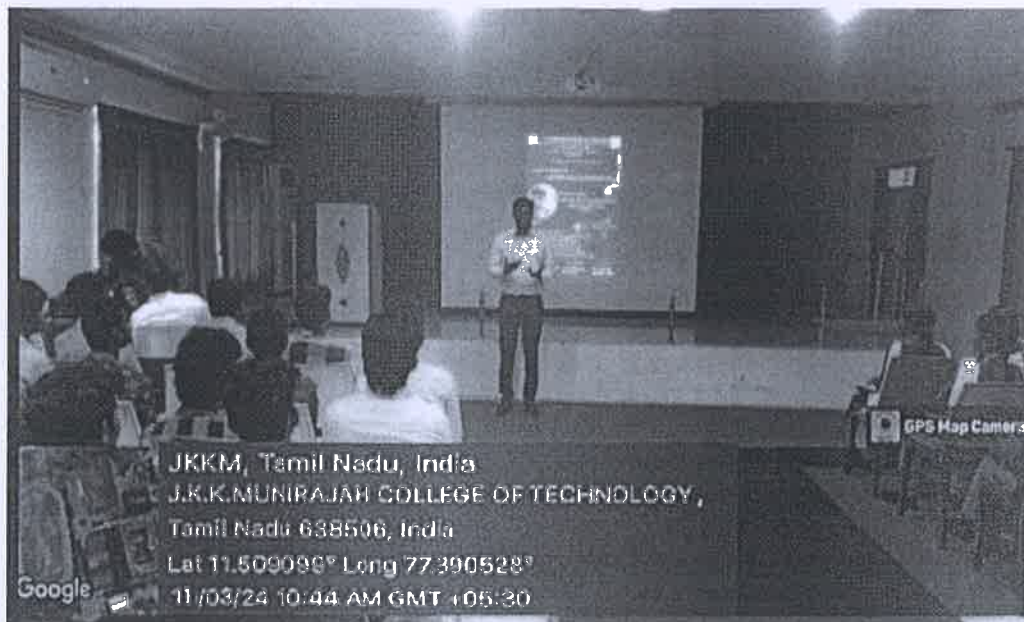
Green Buildings: Energy-efficient design, sustainable materials, and reduced environmental impact. Designing infrastructure to withstand natural disasters and climate change.


### Session 2: Future of Smart Infrastructure: Research and Development

A discussion on the latest R&D projects and technological innovations shaping the future of Smart Infrastructure and Advanced Analysis.

## Conclusion

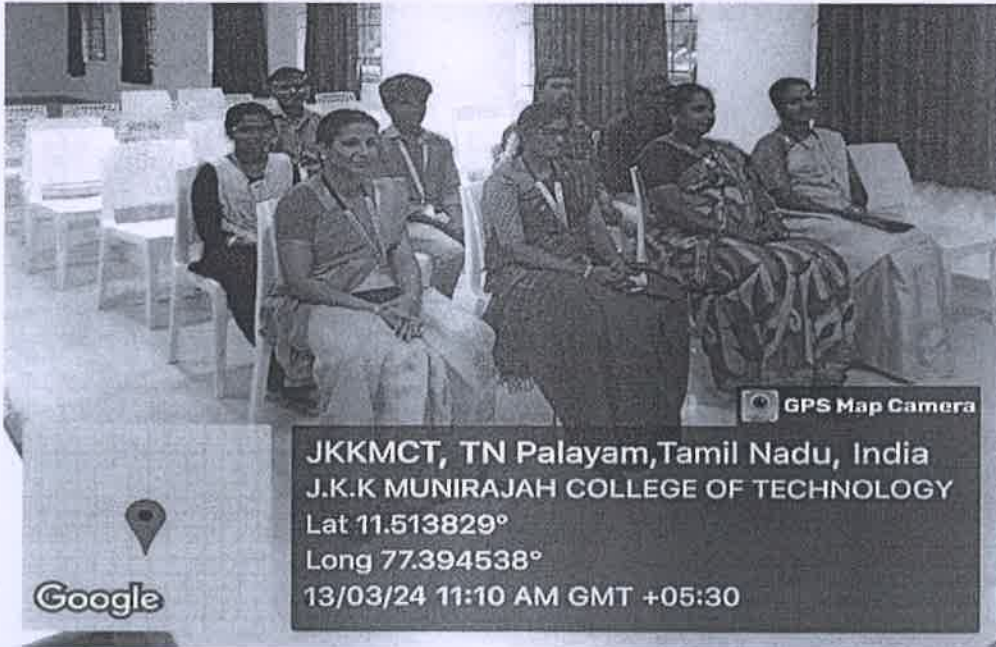
The Faculty Development Program on "Emerging Trends and Applications in Civil Engineering" has provided a comprehensive platform for civil engineering faculty members to enhance their knowledge, skills, and expertise in the latest trends and technologies. As we conclude this Faculty Development Program, we emphasize the importance of continuous learning, innovation, and collaboration in the field of civil engineering. We hope that this program has inspired and motivated participants to become leaders and change-makers in their institutions and communities.




  
**Principal**  
J.K.K.Munirajah College of Technology  
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Erode (Dt) - 638 506

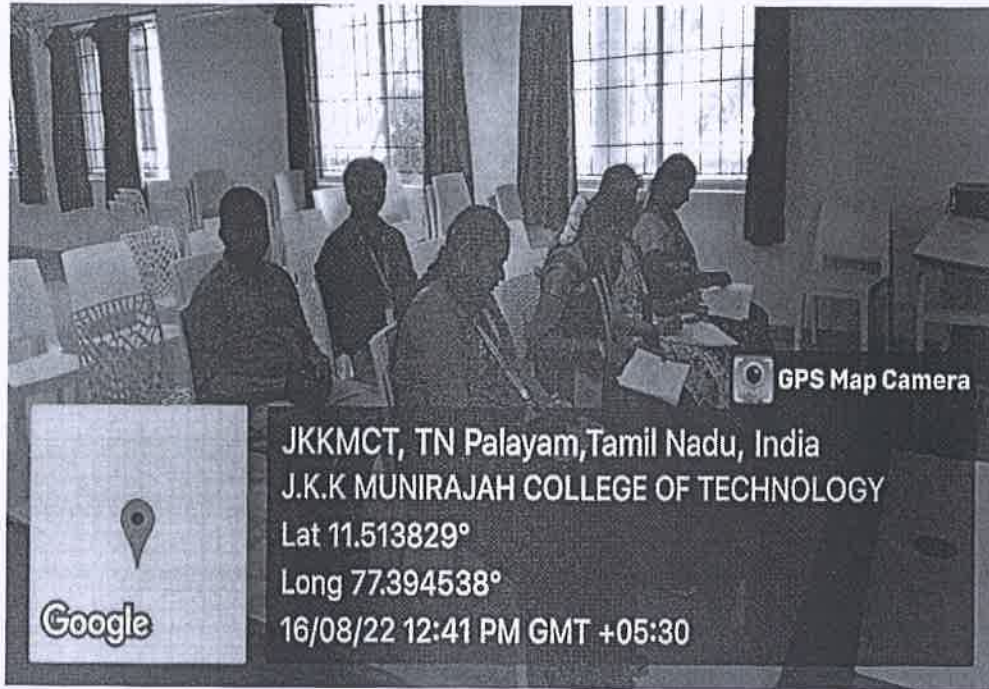


JKKMCT, TN Palayam, Tamil Nadu, India  
J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY  
Lat 11.513829°  
Long 77.394538°  
12/03/24 11:49 AM GMT +05:30



JKKMCT, TN Palayam, Tamil Nadu, India  
J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY  
Lat 11.513829°  
Long 77.394538°  
13/03/24 11:10 AM GMT +05:30

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**Pic - EMERGING TRENDS AND APPLICATIONS IN CIVIL ENGINEERING**

**11-03-2024 to 16-03-2024**

**PROGRAM CO-ORDINATOR**

**PRINCIPAL**

**Principal**

**J.K.K.Munirajah College of Technology**

**(Autonomous)**

**T.N.Palayam, Gobi (Tk),**

**Erode (Dt) - 638 506**

**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAM**

**From**

**Mr. M. Ponnusamy,**  
Assistant Professor & Head,  
Department of Science and Humanities  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

**The Principal,**  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Science and Humanities has planned to organize a one week Faculty Development Program (FDP) in the topic of "QUALITY PRACTICES IN NBA ACCREDITATION PROCESS" from 04.03.2024 to 09.03.2024. For the benefit of our college all department staff updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

Yours Sincerely,



(Mr. M. Ponnusamy)



**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

Oa





**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

**(Autonomous)**



**Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.**

**Accredited by NAAC with "A" Grade**

**T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506**

**JKKMCT/CIRCULAR/FEB-24**

**DATE: 27/02/2024**

**CIRCULAR**

The Department of Science and Humanities is planning to organize a FDP on "QUALITY PRACTICES IN NBA ACCREDITATION PROCESS" for the benefit of the faculty from 04.03.2024 to 09.03.2024. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 01/03/2024.

  
PRINCIPAL

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

  
Principal

**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

1	Understanding NAAC Criteria & Framework
2	Curriculum, Teaching-Learning & Evaluation
3	Emotional Intelligence in Teaching Research, Innovation & Extension
4	Infrastructure & Learning Resources
5	Governance, Leadership, and Institutional Values
6	Finalizing the Self-Study Report and Action Plan

### at the National assessment and accreditation council (NAAC)

The term quality assurance usually gets associated with an external accreditation agency identifying the level of quality of an institution, like NAAC in India. National assessment and accreditation council (NAAC), formed under the auspices of UGC has implemented new methodology of accreditation of educational institutions in India. The dimensions of "quality measure" as proposed by NAAC involve continuous process of assessment of HEIs. The outcome of the assessment is the final institutional grading conferred to the institutions. UGC and NAAC have played a vital role in streamlining the quality HEIs. The process has changed the mind set of all stakeholders towards quality and its sustenance and has involved them to strive for its achievement

### ABOUT JKKMCT

J.K.K. Munirajah College of Technology (Autonomous) was established in 2008 and is governed by the Annai J.K.K. Sampoorani Ammal Charitable Trust. Founded by J.K.K. Munirajah, a prominent industrialist, technocrat, distinguished educationalist, dedicated social worker, and philanthropist with deep spiritual values, the institution aims to deliver world-class education and training in a structured and systematic manner. The management has proudly completed 25 years of dedicated service to the people of India and abroad in the field of education. Spanning 250 acres of lush green land, the college offers state-of-the-art infrastructure and has earned recognition as one of the esteemed educational institutions for men and women in India. Our institute is accredited with an "A" grade by NAAC and is an ISO-certified institution.

### ABOUT THE DEPARTMENT

In our college the departments of Physics, Chemistry, English, Mathematics, and Tamil play a crucial role in shaping the students' foundational knowledge and skills. Here's a brief overview of each department's focus and significance in an engineering context: The department was established in the year 2008 with aim to provide strong fundamentals in Science and Technology under graduate courses and to develop the research activities in Applied Physics and chemistry. The commitment of members of faculty is the real strength of our department in educating the students in Mathematics. Department of English Focuses on developing communication skills, both written and verbal and Emphasizes technical writing, presentation, and soft skills.

### FACULTY DEVELOPMENT PROGRAM on

**"QUALITY PRACTICES IN NBA ACCREDITATION PROCESS"**

**04<sup>th</sup> – 09<sup>th</sup> MARCH 2024**



**Organized by**

**Department of Science and Humanities**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

Approved by AICTE & Anna University  
 Accredited by NAAC with "A" Grade ISO  
 Certified Institution

J.K.K. Munirajah College of Technology  
 (Autonomous)  
 T.N. Palayam, Gobi (Tk),  
 Erode (Dt) - 638 506

## Invited Speakers

**G. Tholkappia Arasu, CEO,**  
Senior Advisor & Vice President,  
Sassan Educare Foundation,  
Chennai.

**A. B. Saravanakumar,**  
Vice-President-Quality Assurance,  
Sassan Educare Foundation,  
Chennai.

## ELIGIBILITY

There is no registration fee from  
participants.

Only the faculties, research scholars and PG  
students from AICTE approved institutions are  
eligible for the FDP.

Number of participants is limited to 100.

Participants will be selected on first-come first-  
served basis.

Selected candidates will be intimated by E-mail  
Confirmation of participation is to be made by  
mail only.

Faculty members selected for the programme  
will get the authorization certificates signed  
by the Head of the institution.

## CONTACT DETAILS

**A.P.Ponnusamy – Professor and Head**  
9842581282

**R.Shanthi- AP/ Maths**  
9842584455

## ADVISORY COMMITTEE

**Mrs. Vasantha Kumari Munirajah,**  
Chairman, JKKM Institutions.

**Mrs. M. Kasthuripriya,** Secretary, JKKM  
Institutions.

**Dr. Kirubakarmurali,** R & D, Director, JKKM  
Institutions.

## COORDINATOR

**Mr.M.PONNUSAMY, M.Sc., M.Phil**  
Asst.Prof. & Head/EEE

## ORGANIZING TEAM MEMBERS

Mrs. S.Poornima, AP / Maths

Mr. R.Shanthi, AP/ Maths

Mrs. M.Senbagam, AP/Chemistry

Ms.S. Samyuktha, AP/Maths

Mr. M. Kavitha, AP/ Physics



*An initiative for Green Energy Transition*

# REGISTRATION FORM Faculty Development Program

On

## QUALITY PRACTICES IN NBA ACCREDITATION PROCESS

04/03/2024 to 09/03/2024

Name (in BLOCK LETTERS) Mr. / Ms / Dr.

Designation & Department

Name of the Institution/Organization

Address for Communication

E-Mail

Contact Number Office

Mobile

Signature

Place:

Signature of Principal



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**FDP ON "QUALITY PRACTICES IN NBA ACCREDITATION PROCESS"**

**FROM 04.03.2024 TO 09.03.2024**

**SCHEDULE PLAN**

DATE	9.30 TO 11.30 AM		11.45AM TO 1.00 PM		2.00 PM TO 4.30 PM
04.03.2023	Registration and Inauguration	<b>TEA BREAK</b>	Overview of NAAC and its importance	<b>LUNCH BREAK</b>	Preparing for NAAC Self –Study Report
05.03.2023	Key Performance Indicators for Accreditation		Case study Analysis		Data collection and Documentation for Self-Study
06.03.2023	Role Of Stakeholders in NAAC process		Role Of Stakeholders in NAAC process		Institutional Development Strategies.
07.03.2023	Innovation and Research as key pillars of NAAC		Best Practices in Research and Teaching and Learning		Group Presentation
08.03.2023	NAAC Peer Team Evaluation Process		Mock Peer Team visit		Challenges During the Peer Team visit
09.03.2023	Role of Internal Quality Assurance Cells		The Road Ahead for Higher Education Institutions		Valedictory function and Feedback of the participants

*M. S. S.*  
CO-ORDINATOR

*[Signature]*  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

*[Signature]*  
PRINCIPAL



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DEPARTMENT OF SCIENCE AND HUMANITIES  
"QUALITY PRACTICES IN NBA ACCREDITATION PROCESS"  
04.03.2024 to 09.03.2024  
PARTICIPANTS LIST

S.NO	NAME	DESIGNATION	SIGNATURE
1.	Mr.T.S.THAMBIRAN.	ASSISTANT PROFESSOR	
2.	Mr.S.M.PRANESH.	ASSISTANT PROFESSOR	
3.	Mr.A.VIGNESHKUMAR.	ASSISTANT PROFESSOR	
4.	Mr.P. MANIKANDAN.	ASSISTANT PROFESSOR	
5.	Mr.A. CHINNATHAMBI	ASSISTANT PROFESSOR	
6.	Mr.G.PALANISAMY.	ASSISTANT PROFESSOR	
7.	Mr.R.DHIVYA.	ASSISTANT PROFESSOR	
8.	Mr.G. RAMACHANDRAN.	ASSISTANT PROFESSOR	
9.	Mr.E.ANANTH	ASSISTANT PROFESSOR	
10.	MrS.P. SASIREKA	ASSISTANT PROFESSOR	
11.	Mrs.U.SASIKALA.	ASSISTANT PROFESSOR	
12.	Mrs.R.KOKILA.	ASSISTANT PROFESSOR	
13.	Mrs.N.GOMATHI.	ASSISTANT PROFESSOR	
14.	Mrs.M.SIVARANJANI.	ASSISTANT PROFESSOR	
15.	Ms.S.ABINAYA.	ASSISTANT PROFESSOR	
16.	Mr.P.DHAKSHINAMOORTHI.	ASSISTANT PROFESSOR	

17.	Mrs.N.MYTHILI.	ASSISTANT PROFESSOR	<i>N. My</i>
18.	Mrs.P.POORNAPRIYA	ASSISTANT PROFESSOR	<i>P. puja</i>
19.	Mrs.M.SENBAGAM.	ASSISTANT PROFESSOR	<i>M. Sen</i>
20.	Mrs.R.SHANTHI	ASSISTANT PROFESSOR	<i>R. Shanti</i>
21.	Ms.S.SAMYUKTHA.	ASSISTANT PROFESSOR	<i>S. Sanyukta</i>
22.	Mr.E.MATHIVANAN.	ASSISTANT PROFESSOR	<i>E. Mathivanan</i>
23.	Ms.P. MAHASAKTHI.	ASSISTANT PROFESSOR	<i>P. Mahasakthi</i>
24.	Mr. P.RAMESH.	ASSISTANT PROFESSOR	<i>P. Ramesh</i>
25.	MrS.M. KAVITHA	ASSISTANT PROFESSOR	<i>M. Kavitha</i>
26.	Mrs.R.CHITRA	ASSISTANT PROFESSOR	<i>R. Chitra</i>
27.	Ms.N.CHITRA.	ASSISTANT PROFESSOR	<i>N. Chitra</i>
28.	Mr.S.PREM KUMAR	ASSISTANT PROFESSOR	<i>S. Prem Kumar</i>
29.	Mr.G.TAMILSELVAN.	ASSISTANT PROFESSOR	<i>G. Tamil Selvan</i>
30.	Mr.N.MADESH.	ASSISTANT PROFESSOR	<i>N. Madesh</i>

*M. Sanyukta*  
PROGRAM CO-COORDINATOR

*K. K. K.*  
PRINCIPAL

*K. K. K.*  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

(Autonomous)



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

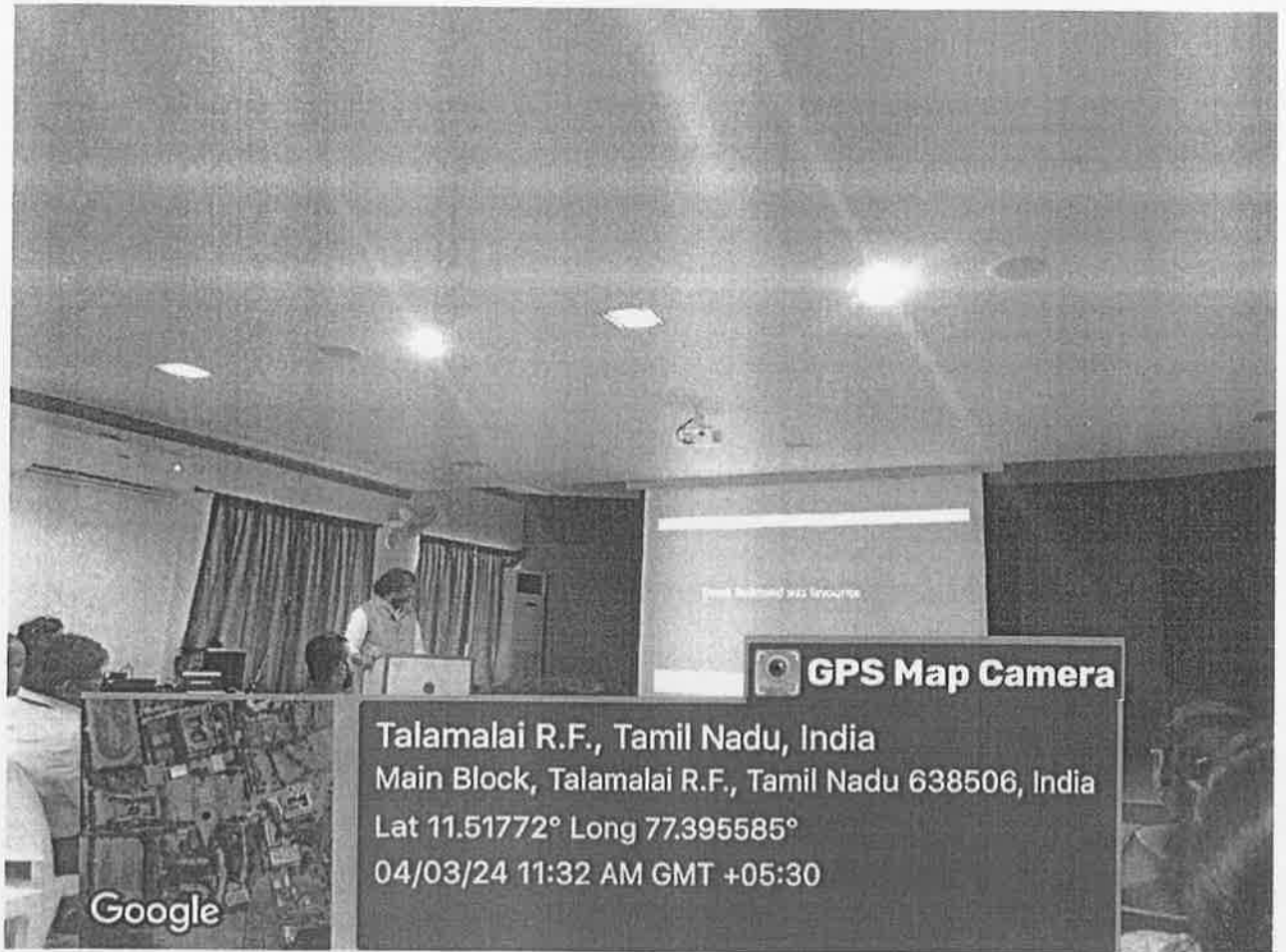
Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Title of the Event	"QUALITY PRACTICES IN NBA ACCREDITATION PROCESS"
Date of Event Organized	04/03/2024 to 09/03/2024
No of Participants	30
Venue	Seminar Hall
Name of Chief Guest/Speakers	<b>Dr. G. Tholkappia Arasu, CEO,</b> Senior Advisor & Vice President, Aassan Educare Foundation. Chennai  <b>Mr. B. Saravanakumar,</b> Vice-President-Quality Assurance Aassan Educare Foundation. Chennai

**Description/Conclusion:**

Quality in higher education has become the prime agenda of countries worldwide. In the changing context marked by expansion of higher education and globalization of economic activities, education has become a national concern. The university grants commission (UGC), by virtue of the statutory powers conferred on it is expected to develop effective mechanisms for quality control of institutions. Section 12 of the UGC act of 1956 specifically requires UGC to be responsible for "the determination and maintenance of standards of teaching, examinations and research in universities". Towards fulfilling this mandate, UGC has evolved various monitoring mechanisms for quality control.

The term quality assurance usually gets associated with an external accreditation agency for identifying the level of quality of an institution, like the NAAC in India. National assessment and accreditation council (NAAC), formed under the aegis of UGC has implemented new

methodology of evaluation of educational institutions in India. The new dimensions of “quality measure” as proposed by the NAAC involve continuous process of assessment of HEIs. The outcome of the assessment is the final institutional grading conferred to the institutions. UGC and NAAC have played a vital role in streamlining the quality HEIs. The process has changed the mind set of all stakeholders towards quality and its sustenance and has involved them to contribute for its achievement. They provide adequate guidelines for formulating quality assurance policies as well as for adopting systems and procedures within teacher education institutions for enhancing the quality of the processes involved in teacher development.



NBA assesses and accredits higher education institutions based on their performance in certain parameters.

### **Promoting quality**

NBA aims to make quality the defining element of higher education in India. It does this by promoting quality through self-evaluation, external quality evaluation, and other initiatives.

### **Encouraging innovation**

NBA encourages innovation, self-evaluation, accountability, and autonomy in higher education.

### **Sharing information**

NBA shares information on successful quality strategies.

### **Collaborating**

NBA collaborates with other stakeholders of higher education to promote and sustain quality.

### **Undertaking research**

NBA undertakes quality-related research studies, consultancy, and training programs.



**PROGRAM CO-COORDINATOR**



**PRINCIPAL**



**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAMME**

**From**

Mr.K.Sriram,  
Assistant Professor & Head,  
Department of Mechanical Engineering,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**Respected Sir,**

**SUB:** Requesting Permission to conduct FDP-Reg.


The department of Mechanical Engineering has planned to organize a one week Faculty Development Program (FDP) in the topic of “**INDUSTRIAL AUTOMATION AND MECHANICAL DESIGN**” from 19.02.2024 to 24.02.2024, for the benefit of our college Mechanical and Automobile department staff to update their knowledge.

**Thank You**

Yours Sincerely,

  
**(Mr.K.Sriram)**

*Permitted*  
*[Signature]*

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
**(AUTONOMOUS)**



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**JKKMCT/CIRCULAR/FEB-2024**

**DATE: 05/02/2024**

**CIRCULAR**

The Department of Mechanical Engineering is planning to organize a Faculty Development program on "INDUSTRIAL AUTOMATION AND MECHANICAL DESIGN" for the benefit of faculty members from 19.02.2024 to 24.02.2024. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 14/02/2024.

  
PRINCIPAL

**Principal**

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

  
Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

## ABOUT THE COLLEGE

J.K.K.Munirajah is a reputed industrialist, technocrat, an educationalist, and excellence in a void social worker, a person imbued in deep spiritual values and a Philanthropist. J.K.K.Munirajah founded a Charitable Trust by name AnnaJ.K.K.SampooraniAmmal Trust, Komarapalaym-638 183, Namakkal Dt., and Tamilnadu in the year of 1971. J.K.K.Munirajah established many temples of leaving to perpetuate the ever lasting memory of his beloved mother. At present AnnaJ.K.K.SampooraniAmmal Charitable Trust maintains and runs Paramedical Institutions offering Diploma, Graduate and Post Graduate courses in Pharmacy, Nursing, Physiotherapy and Occupational Therapy at Komarapalayam, NamakkalDt and a Polytechnic, Community Polytechnic and a Industrial Training Center at T.N.Palayam, Erode Dt. These educational Institutions are temples of Learning and have contributed much to a formidable social change in our society. The Trust has won many National and State awards. They are renowned educational institutions spared nothing to promote knowledge, wisdom and service-orientation.

## ABOUT THE DEPARTMENT

The Mechanical Engineering Department was started in the year 2010. The department offers four years B. E. -Mechanical Engineering. The department has a team of highly qualified, dedicated and motivated faculty and well

equipped laboratories with facilities for UG. B.E has been accredited by AICTE, New Delhi. The goal of the Mechanical engineering curriculum is to create a flexible undergraduate educational experience in design, mathematics, modeling, computing, management, and engineering science. Principal study topics include fluid mechanics, thermodynamics & heat transfer, solid mechanics, materials engineering, manufacturing, energy systems, dynamics & computer Aided Design (CAD) and others.

## ABOUT THE PROGRAMME

Industrial Automation and Mechanical Design aims to equip participants with the technical expertise and insights necessary to meet the evolving demands of modern industries. With rapid advancements in technology, industrial automation and mechanical design have become crucial in driving efficiency, precision, and innovation in manufacturing, production, and engineering sectors. To provide an understanding of the fundamentals and applications of industrial automation technologies such as PLCs, SCADA, IoT, robotics, and sensors. Industries worldwide are embracing automation to improve productivity, enhance safety, and reduce human error. At the same time, mechanical design serves as the foundation for creating innovative machinery, products.

**Principal**  
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**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY**

**(AUTONOMOUS)**

**T.N.PALAYAM**

Accredited by NACC with "A" grade

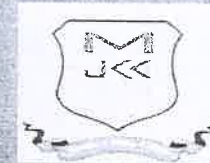
**ONE WEEK FACULTY DEVELOPMENT  
PROGRAMS**

On

**INDUSTRIAL AUTOMATION AND  
MECHANICAL DESIGN**

**19/02/2024 TO 24/02/2024**

Organized by



**Department Of Mechanical Engineering**

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY, T.N.PALAYAM**

Tel No: 04285-260754-55, Fax: 04285-  
260755. E-mail: [jkkmechtrix@gmail.com](mailto:jkkmechtrix@gmail.com),  
Website: [www.jkkmct.org](http://www.jkkmct.org)

**ORGANIZING COMMITTEE**

**Convener:** Mr.S.Karthikeyan  
Assistant Professor,  
Mechanical Engineering,  
JKKMCT, Gobi

**Coordinators:** M.Sivakumar,  
Assistant Professor,  
Mechanical Engineering,  
JKKMCT, Gobi

**ONE WEEK FACULTY DEVELOPMENT  
PROGRAMS**

On


**INDUSTRIAL AUTOMATION AND  
MECHANICAL DESIGN**

Department Of Mechanical Engineering

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY  
(AUTONOMOUS)  
T.N.PALAYAM**

Mobile : 9597553594

Email : siva36merch@gmail.com

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
(Autonomous)  
T.N.Palayam, Gobi (Tk)  
Erode (DP) - 638 506

**SESSION DETAIL**

- 1.Fundamentals of Industrial Automation
2. Advanced Industrial Automation Systems
- 3.Introduction to Mechanical Design
4. Emerging Technologies and Research Opportunities
5. Practical Applications and Future Scope

**RESOURCE PERSONS**

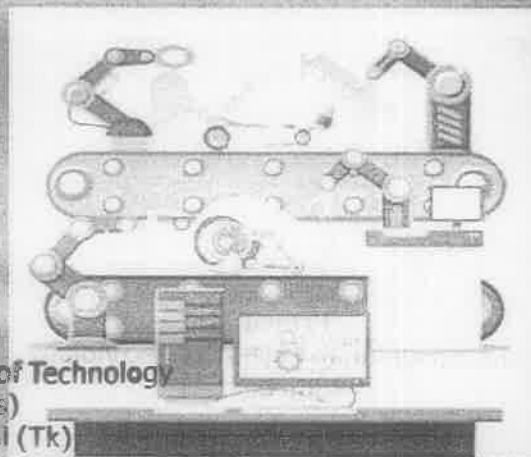
Mr.B.SABINATH,M.E

DMW CNC CENTRE,

PERUNDHURAI.

**IMPORTANT DATES:-**

Last Date for Receipt of Registration  
form: 14.02.2024



**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY**

**(AUTONOMOUS)**

**T.N.PALAYAM**

**ONE WEEK FACULTY DEVELOPMENT  
PROGRAMS**

On

**INDUSTRIAL AUTOMATION AND  
MECHANICAL DESIGN**

**19/02/2024 TO 24/02/2024**

**REGISTRATION FORM**

Name: .....

Gender: **MALE/FEMALE**

Address for Communication:

.....

.....

PIN: .....

Email: .....

Mobile No. ....

Date: \_\_\_\_\_ Place: \_\_\_\_\_

Signature of the applicant



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
(AUTONOMOUS)



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**INDUSTRIAL AUTOMATION AND MECHANICAL DESIGN**

**19.02.2024 to 24.02.2024**

**SCHEDULE PLAN**

Date/Time	10.00am-11.30m	11.30am-11.45am	11.45am-1.00pm	1.00pm-2.00pm	2.00pm-4.00pm
19-02-2024	Inaugural Function	Tea Break	Fundamentals of Industrial Automation	Lunch	Sensors and Actuators
20-02-2024	Advanced Industrial Automation Systems	Tea BREAK	PLC Programming and Applications	Lunch	SCADA and HMI Systems
21-02-2024	Introduction to Mechanical Design	Tea Break	Basics of Mechanical Design	Lunch	CAD Tools and Applications
22-02-2024	Advanced Topics in Mechanical Design	Tea Break	Finite Element Analysis (FEA)	Lunch	Integration of Mechanical Design and Automation
23-02-2024	Emerging Technologies and Research Opportunities	Tea Break	Robotics and Automation in Manufacturing	Lunch	IoT and AI in Industrial Automation
24-02-2024	Practical Applications and Future Scope	Tea Break	Industry Case Studies	Lunch	Research Directions and Future Trends

*M. Anand*

**PROGRAM CO-ORDINATOR**

*Princip*

**PRINCIPAL**

*Princip*

**Principal**  
**J.K.K. Munirajah College of Technology**  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



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**INDUSTRIAL AUTOMATION AND MECHANICAL DESIGN**

**19.02.2024 to 24.02.2024**

**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	V P ARUL MURUGAN	Assistant Professor	
2.	S.GANESH KUMAR	Assistant Professor	
3.	E.DEEPARAJ	Assistant Professor	
4.	M.SIVAKUMAR	Assistant Professor	
5.	K.GOVINTHASAMY	Assistant Professor	
6.	K.GOPALAKRISHNAN	Assistant Professor	
7.	P.ESWARAN	Assistant Professor	
8.	S.KARTHIKEYAN	Assistant Professor	
9.	N.SANKAR	Assistant Professor	
10.	V.MAGESH	Assistant Professor	
11.	K.S.RAMESH	Assistant Professor	
12.	K.SRIRAM	Assistant Professor	
13.	V. SABARIVASAN	Assistant Professor	
14.	E.PRABHURAJ	Assistant Professor	
15.	P.SURESH	Assistant Professor	

PROGRAM CO-ORDINATOR

Principal  
J.K.K. Munirajah College of Technology  
(Autonomous) PRINCIPAL  
T.N. Palayam, Gobi (Tk),  
Erode (Dt), 638 506



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
**(AUTONOMOUS)**



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	INDUSTRIAL AUTOMATION AND MECHANICAL DESIGN
Date of Event Organized	19.02.2024 to 24.02.2024
No of Participants	15
Venue	MECHANICAL SMART CLASS
Name of Chief Guest/Speaker	<b>Mr.B.SABINATH,M.E</b> ASSISTANT MANAGER DMW CNC CENTRE, PERUNDHURAI, ERODE.

**Description/Conclusion:**

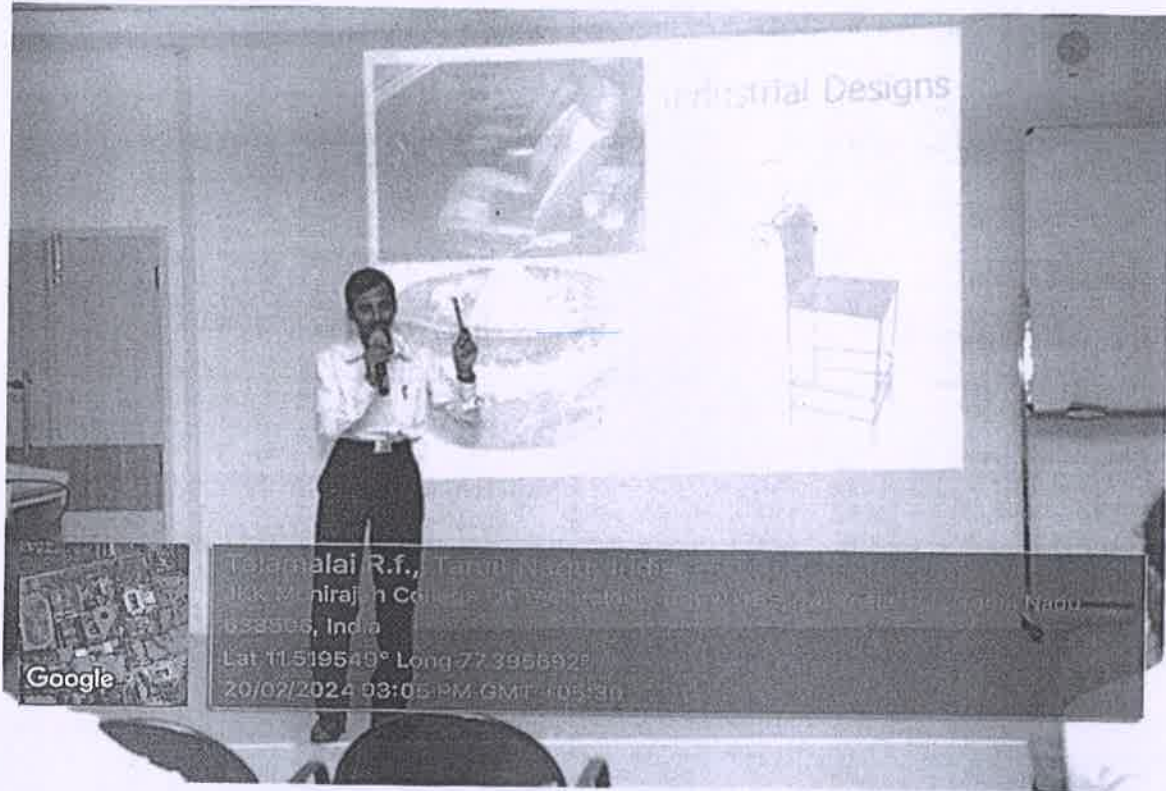
The integration of Industrial Automation and Mechanical Design has revolutionized the manufacturing and production industries, enabling higher levels of precision, efficiency, and scalability. Automation minimizes human error, enhances safety, and allows for real-time monitoring and control, while mechanical design ensures that systems are optimized for performance, durability, and cost-effectiveness. For educators, researchers, and professionals, understanding the intersection of Industrial Automation and Mechanical Design is crucial for developing the knowledge and skills needed to meet the challenges of modern industrial

**Principal**

**J.K.K.Munirajah College of Technology**  
**(Autonomous)**

**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt), 638 506**

environments. Embracing these fields ensures the creation of smarter, safer, and more efficient systems, paving the way for future growth and technological advancements in manufacturing, robotics, and beyond.



**Pic- INDUSTRIAL AUTOMATION AND MECHANICAL DESIGN**

**19.02.2024 TO 24.02.2024**

**Speaker Details:**

Mr.B.SABINATH M.E., Working as Assistant Manager in DMW centre at Perundhurai, Erode.

**PROGRAM CO-ORDINATOR**

**PRINCIPAL**

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**APPROVAL FOR ORGANISING FACULTY DEVELOPMENT  
PROGRAMME**

**From**

Dr. C. Saravanan  
Professor & Head,  
Department of Electrical & Electronics Engineering  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

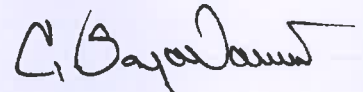
**Respected Sir,**

**SUB:** Requesting Permission to conduct FDP-Reg.


The department of Electrical Engineering has planned to organize a six days Faculty Development Program (FDP) in the topic of **“INTEGRATION OF GREEN ENERGY WITH SMART POWER SYSTEM”** from **12.02.2024** to **17.02.2024**, for the benefit of our college department staffs updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

**Thank You**

Yours Sincerely,



(Dr. C. Saravanan)

  
**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
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**JKKMCT/CIRCULAR/FEB-2024**

**DATE: 07/02/2024**

**CIRCULAR**

The Department of Electrical and Electronics Engineering is planning to organize a Faculty Development program on "INTEGRATION OF GREEN ENERGY WITH SMART POWER SYSTEM" for the benefit of faculty members from 12.02.2024 to 17.02.2024. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 07/02/2024.

  
PRINCIPAL

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

## REGISTRATION FORM

Six Days

**Faculty Development Programme on  
Integration of Green Energy With  
Smart Power System  
12-07-2024 to 17-02-2024**

Name :

Designation :

Qualification :

Department :

Institution :

Experience :

Communication

Address :

Email ID :

Mobile No :

### DECLARATION

I declare that all the details furnished above are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of the program.

Date:

Place:

Signature of Applicant

## ELIGIBILITY AND SELECTION

- Faculty from AICTE Approved Engineering and Polytechnic College participants from the industry, Government organizations.
- Research Scholars, PG Scholars selection will be based first cum first serve as the total number of seats is restricted to 30.
- Selected participants should attend the complete duration of FDP.

### REGISTRATION

- No Registration fee to attend the Programme.
- Scanned copy of filled in registration form should be sent through e-mail.

### CONTACT DETAILS

Dr. C. Saravanan  
HOD/EEE-Coordinator,  
Department of EEE,  
J.K.K. Munirajah College of  
Technology,  
T.N.Palayam-638506.  
Mobile No. 9994050500.  
E-mail Id: hodeee@jkkmct.edu.in



*Principal*  
**J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

Six Days

**Faculty Development  
Programme**

On

**INTEGRATION OF GREEN ENERGY  
WITH SMART POWER SYSTEM**

12-02-2024 to 17-02-2024



Organized by

**Department of Electrical and Electronics  
Engineering**

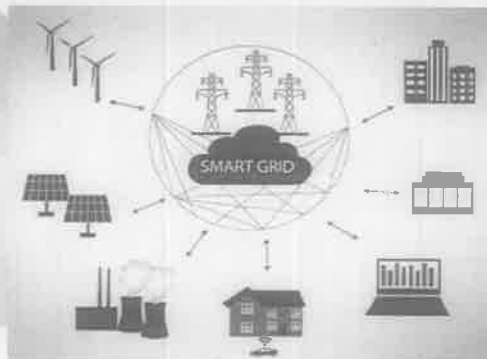
**J.K.K. MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
(AUTONOMOUS)**

T.N. Palayam, Gobi,  
Erode, Tamilnadu-638506

## SCOPE OF THE PROGRAM

The Faculty Development Program (FDP) on the **Integration of Green Energy with Smart Grid Power Systems** is designed to equip faculty members with the knowledge and skills required to teach and conduct research on integrating renewable energy sources (solar, wind, hydro, etc.) into modern, efficient, and smart power grids. This program aims to address the growing need for clean, sustainable energy solutions while promoting the development of smart grids that can effectively integrate these renewable resources.

The scope of the FDP encompasses a wide range of topics including renewable energy technologies, smart grid concepts, energy storage, and grid management, as well as practical tools for grid optimization and demand-side management. It aims to help participants understand the technologies, challenges, and opportunities associated with the integration of green energy into modern power systems.



## Programme Offered by Department

- B.E -UG in Electrical and Electronics Engineering.
- M.E - PG in Power Electronics and Drives

## RESOURCE PERSON

1. **Er. K.KABILAN**  
Technical Engineer  
M/s KG-Electricals  
Coimbatore.
2. **Er. P. Palanisamy,**  
Automation Engineer  
M/s KG-Electricals  
Coimbatore.

## COURSE CONTENT

The following are the course contents that will be discussed in the Faculty Development Training Programme.

- Introduction to Green Energy
- Role of Communication and IT in Smart Power Systems
- Power Electronics for Green Energy
- Integration of Renewable Energy Sources with Smart Grids
- Grid-Scale Energy Storage: Challenges and Opportunities
- Demand Response in Smart Grids and Integration with Green Energy
- Microgrids Design, Operation, and Integration with Smart Grids
- Forecasting Techniques for Solar and Wind Energy Generation

## ABOUT THE INSTITUTION

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY** was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner J.K.K.Munirajah group of Institutions was founded by J.K.K.Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, social worker, a person imbibed in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of- the- art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

## ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has introduced the 4year courses are B.E (Electrical and Electronics Engineering) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Electrical and Electronic Engineering strives towards Updating the syllabus. So that the students are always equipped with advanced technology to meet Industrial standard Hi tech Laboratories also render the necessary expertise.



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



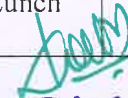
**“INTEGRATION OF GREEN ENERGY WITH SMART POWER SYSTEM”**

**(12.02.2024 to 17.02.2024)**

**PROGRAM SCHEDULE**

Date/Time	09.00 am-10.30 am	10.30 am-10.45 am	10.45 am-12.30 pm	12.30 pm-01.30 pm	01.30 pm-03.00 pm	3.00 pm-4.30 pm
12.02.2024	Inauguration and Overview	Tea Break	Basics of Green Energy and Sustainable Power Generation	Lunch	Overview of Smart Power Systems	Role of Communication and IT in Smart Power Systems
13.02.2024	Solar and Wind Energy Systems	Tea Break	Power Electronics for Green Energy	Lunch	Power Converters and Inverters for Solar and Wind Energy	Integration of Renewable Energy Sources with Smart Grids
14.02.2024	Energy Storage Solutions	Tea Break	Grid-Scale Energy Storage: Challenges and Opportunities	Lunch	Techniques for Load Forecasting and Management	Demand Response in Smart Grids and Integration with Green Energy
15.02.2024	Communication Technologies in Smart Power Systems	Tea Break	Data Acquisition and Remote Monitoring Techniques	Lunch	Control Strategies in Smart Grids for Renewable Energy Integration	Cyber security Challenges in Smart Grids and Green Energy Systems
16.02.2024	Micro grids: Design, Operation, and Integration with Smart Grids	Tea Break	Distributed Energy Resources (DER) and their Role in Smart Grids	Lunch	Forecasting Techniques for Solar and Wind Energy Generation	Real-time Operation of Smart Grids with Renewable Energy Integration
17.02.2024	Challenges and Solutions in Real-World Applications	Tea Break	Smart Grid Operation and Renewable Energy Forecasting	Lunch	Open Discussion on Key Learning's and Future Trends	Closing Ceremony, & Feedback Session

  
CO-ORDINATOR

  
**Principal**  
J.K.K.Munirajah College of Technolog  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

  
PRINCIPAL



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
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**“ INTEGRATION OF GREEN ENERGY WITH SMART POWER SYSTEM”**

**(12.02.2024 to 17.02.2024)**

**PARTICIPANTS LIST**

S.NO	NAME OF THE TEACHER	DESIGNATION	SIGNATURE
1.	T.S.THAMBIRAN	Associate Professor	
2.	S.M.PRANESH	Assistant Professor	
3.	A. VIGNESHKUMAR	Assistant Professor	
4.	G. RAMACHANDRAN	Assistant Professor	
5.	G.PALANISAMY	Assistant Professor	
6.	M.MOHANAMBIKA	Assistant Professor	
7.	S.SRINIVASAN	Assistant Professor	
8.	N.DHANASEKAR	Assistant Professor	
9.	N.MEKALA	Assistant Professor	
10.	P.CHINNATHAMBI	Assistant Professor	
11.	P.MANIKANDAN	Assistant Professor	

Principal

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**Erode (Dt) - 638 506**

12.	N. GOMATHI	Assistant Professor	<i>N. G.</i>
13.	R. KOKILA	Assistant Professor	<i>R. K.</i>
14.	U. SASIKALA	Assistant Professor	<i>U. S.</i>
15.	N. NAVINDRAN	Assistant Professor	<i>N. Nav.</i>
16.	M.SIVARANJANI	Assistant Professor	<i>M. Sivar.</i>
17.	DHAKSHINAMOORTHY	Assistant Professor	<i>Def.</i>
18.	N.MYTHILI	Assistant Professor	<i>N. My.</i>
19.	BRIGHT THANGA MAHIZH	Assistant Professor	<i>B. T. M.</i>
20.	PREJITHA S	PG Student	<i>Prejitha</i>
21.	ROOPAN DURAI G	PG Student	<i>R. Roopan</i>
22.	AMSAVENI M	PG Student	<i>A. Msaveni</i>
23.	DHARANI P	PG Student	<i>Dharani</i>

*G. Gayadamm*  
PROGRAM CO-ORDINATOR

*[Signature]*  
PRINCIPAL

*[Signature]*  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



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### FDP REPORT

Name of Institution	J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	<b>INTEGRATION OF GREEN ENERGY WITH SMART POWER SYSTEM</b>
Date of Event Organized	<b>12.02.2024 to 17.02.2024</b>
No of Participants	23
Venue	Seminar Hall(A/C)
Name of Chief Guest/Speakers	1. Er. K. Kabilan, Technical Engineer, M/s KG-Electricals, Coimbatore 2. Er. P. Palanisamy, Automation Engineer M/s KG-Electricals, Coimbatore.

#### **Learning Objectives**

- Introduction to Green Energy
- Fundamentals of Smart Power Systems
- Technical Challenges in Renewable Energy Integration
- Energy Storage Solutions for Green Energy
- Demand Response and Load Management
- Grid Optimization and Management for Renewable Integration

#### **Description**

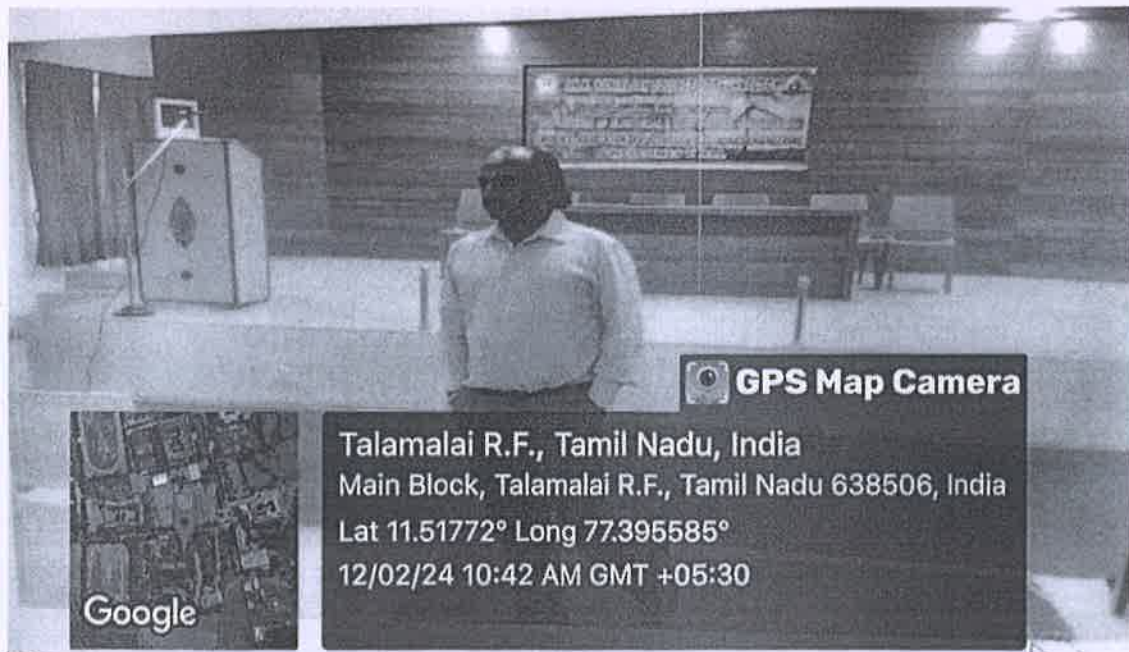
The global shift towards sustainable energy systems is accelerating, and the integration of renewable energy sources such as solar, wind, hydro, and biomass into existing power grids is becoming a priority for enhancing the efficiency and sustainability of electrical power systems. This 6-day Faculty Development Program (FDP) aims to provide a comprehensive understanding of the integration of green energy into smart power systems, focusing on modern tools, techniques, challenges, and opportunities in the sector.

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**

**Conclusion:**

The 6-days Faculty Development Program (FDP) on "Integration of Green Energy with Smart Power System" has been a highly successful initiative in providing participants with the necessary tools and insights to address the challenges and opportunities of integrating renewable energy sources with smart technologies. As the world transitions to more sustainable energy solutions, understanding the intersection of green energy and smart grid systems is becoming increasingly important for professionals in the energy sector.

Over the course of the program, participants were exposed to a rich blend of knowledge and real-world case studies, allowing them to understand both the technical and managerial aspects of smart grids and renewable energy integration. They learned how energy storage systems, advanced grid management, and IoT-based monitoring systems are essential in overcoming the intermittency of renewable energy and ensuring a reliable and efficient power supply.



**Resource Person: Mr. K. Kabilan, Technical Engineer, M/s. KG-Electricals Centre, Coimbatore**

  
PROGRAM CO-ORDINATOR

  
PRINCIPAL

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam. Gobi (Tk).**



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**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAMME**

**From**

Mrs.D. Nivethini,  
Assistant Professor & Head,  
Department of Information Technology,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichettipalayam,  
Erode DT-638 506.

**To**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichettipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Information Technology has planned to organize a one-week Faculty Development Program (FDP) in the topic of "**Generative AI**" from **05.02.2024 to 09.02.2024**. For the benefit of our college all department staff updates their knowledge about the Artificial Intelligence. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

**Principal**  
**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

Yours Sincerely,

(Mrs.D.Nivethini)

Permitted  
J.K.K.



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
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**JKKMCT/CIRCULAR/MAY-2024**

**DATE: 01/02/2024**

**CIRCULAR**


The Department of Information Technology is planning to organize an awareness program on "Generative AI" for the benefit of the faculty from 05.02.2024 to 09.02.2024. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 02/02/2024.

  
11/2/24  
**PRINCIPAL**

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

### Invited Speakers

1. Mr. K. MANIKANDAN  
Assistant Professor,  
Department of Cyber Security,  
KSR College of Engineering,  
Thiruchengode.

2. Mr. J. VIJAYKUMAR  
Senior Associate,  
Cognizant Technology Solutions,  
Chennai.



### Mail your Registration forms:

Mrs. D. Nivethini,  
Assistant Professor /IT  
J.K.K. Munirajah College of Technology,  
Gobichettipalayam,  
Erode Dt -638 506.  
Phone: 04285 – 260755.  
Email: [hodit@jkkmct.edu.in](mailto:hodit@jkkmct.edu.in)

### Registration Committee

Mrs. P. Sangeetha 9677182957  
Mrs. M. Renukadevi 9994965917

### Organising Committee

#### Chief Patron

Mrs. M. Kasthuripriya, M.B.A.,  
Secretary  
J.K.K. Munirajah Group of Educational  
Institution.

#### Patron

Dr. K. Sridharan  
Principal,  
JKKM. College of Technology.

#### Convener

Dr. S. B. Manooj Kumar,  
Assistant Professor,  
Department of Computer Science and  
Engineering,  
J.K.K. Munirajah College of Technology.

#### Participant/Selection Procedure

Faculty members, Research Scholars  
and our other institution faculty  
members. Maximum number of  
participants is limited to 50, hence, the  
selection will be based on first-come,  
first-served basis.

#### No Registration Fee

Registration can be made through  
[http://www.jkkmct.org/rec-fdp-2024\\_](http://www.jkkmct.org/rec-fdp-2024_)  
No TA/DA will be given.

#### Important Dates

Last date for receipt of filled in  
applications: 21 JAN 2024

Date of intimation regarding selection:  
22 JAN, 2024

## FACULTY DEVELOPMENT PROGRAM (FDP)

ON

## GENERATIVE AI

(05.02.2024 TO 09.02.2024)

ORGANIZED BY

DEPARTMENT OF  
INFORMATION TECHNOLOGY

J.K.K. MUNIRAJAH  
COLLEGE OF  
TECHNOLOGY  
T. N. PALAYAM

GOBICHETTIPALAYAM,  
ERODE DT, TN-638 056

Generative AI

*(Signature)*  
Principal,  
J.K.K. Munirajah College of Technology  
(Autonomous),  
T.N. Palayam, Gobichetti,  
Erode (Dt) - 638 506

### About the College

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai .K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner. J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of- the- art infrastructural facilities and excellent academic records has earned recognition.

### About the Department

The J.K.K.Munirajah college of Technology has introduced the 4 year courses are B.TECH (Information Technology) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Computer Science Engineering strives towards updating the syllabus. So that the students are always equipped with advanced technology to meet Industrial standard Hi tech Laboratories also render the necessary expertise

### About the FDP

Faculty Development Program (FDP) on Blockchain Technology is designed to provide educators and academic professionals with a deep understanding of blockchain concepts, applications, and its potential to transform various industries. The program aims to familiarize participants with blockchain fundamentals, such as decentralization, cryptographic security, and consensus mechanisms, while also exploring real-world applications in sectors like finance, healthcare, supply chain, and education. Through hands-on workshops and expert-led sessions, faculty members gain practical experience in developing decentralized applications (dApps), deploying smart contracts, and using blockchain platforms like Ethereum and Hyperledger. Additionally, the FDP covers important aspects such as research opportunities, ethical and legal challenges, and the integration of blockchain with emerging technologies like Artificial Intelligence and the Internet of Things.

### The Major Objectives

Generative AI aims to reduce the time and effort involved in producing large amounts of content, such as blog posts, product descriptions, or reports, helping businesses scale their content production. Generative AI can help in areas like architecture

**FACULTY DEVELOPMENT PROGRAM (FDP)  
ON  
BLOCK CHAIN TECHNOLOGY  
(25.03.2024 TO 29.03.2024)  
ORGANIZED BY**

**DEPARTMENT OF  
INFORMATION TECHNOLOGY**

**J.K.K.MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T. N. PALAYAM**

**GOBICHETTIPALAYAM, ERODE DT,  
TN-638 056**

**Name (in BLOCK LETTERS) Mr. / Ms / Dr.**

---

**Designation & Department**

---

**Name of the Institution/Organization**

---

**E-Mail**

---

**Contact Number**

---

**Signature**

**Place:**

**Signature of Principal**

# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

(AUTONOMOUS)

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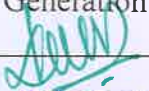
## GENERATIVE AI

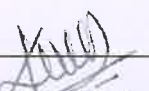
(05.02.2024 to 09.02.2024)

### SCHEDULE PLAN

DATE	9.30 TO 11.30 AM		11.45AM TO 1.00 PM		2.00PM TO 4.30PM
05.02.2024	Registration and Inauguration	TEA BREAK	Fundamentals of Generative AI	LUNCH BREAK	Fundamentals of Azure Open AI Service
06.02.2024	Fundamentals of Responsible Generative AI		Understanding How large language models form the foundation of Generative AI		Understanding How large language models form the foundation of Generative AI
07.02.2024	Introduction to AI Tools for Faculty		Enhancing Communication with ChatGPT		Creating your Own GPT Model
08.02.2024	AI Powered Image Generation,		Automating Data Analysis with AI in Excel		Creating Engaging Presentations with AI in PowerPoint
09.02.2024	Generating Course Content with GPT Evaluating Answer Sheets using GPT vision		AI tools for Document Summarization Automated Quiz and Question Paper Generation with AI		Valedictory function and Feedback of the participants

  
CO-ORDINATOR

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
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Erode (Dt) - 638 506





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**GENERATIVE AI  
(05.02.2024 to 09.02.2024)**

**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	Dr.N.SATHYABALAJI	ASSOCIATE PROFESSOR AND HOD	
2.	Mr.R.GNANASEKAR	ASSISTANT PROFESSOR	
3.	Mr.S.DHARANITHARAN	ASSISTANT PROFESSOR	
4.	Mr.S.B.MANOOJKUMAAR	ASSISTANT PROFESSOR	
5.	Ms.V.NIROSHA	ASSISTANT PROFESSOR	
6.	Mrs.P.POORNAPRIYA	ASSISTANT PROFESSOR	
7.	Mr. SATHEESH S	ASSISTANT PROFESSOR	
8.	Ms.K.S.VINOTHAN	ASSISTANT PROFESSOR	
9.	Mrs.M.C.SAVITHRI	ASSISTANT PROFESSOR	
10.	Mr.E.ANANTH	ASSISTANT PROFESSOR	
11.	Mrs. SASIREKA	ASSISTANT PROFESSOR	
12.	Ms.S.ABINAYA.,	ASSISTANT PROFESSOR	
13.	Mr.P.DHAKSHINAMOORTHY	ASSISTANT PROFESSOR	
14.	Mrs.N.MYTHILI	ASSISTANT PROFESSOR	
15.	Mrs.D.NIVETHINI	ASSISTANT PROFESSOR	
16.	Mrs.S.KANIMOZHI	ASSISTANT PROFESSOR	
17.	Mr.V.ESWARAMURTHY	ASSISTANT PROFESSOR	
18.	Mr.A.SAMBATHKUMAR	ASSISTANT PROFESSOR	
19.	Mrs.M.RENUKADEVI	ASSISTANT PROFESSOR	
20.	Mr.S.SUDHAKAR	ASSISTANT PROFESSOR	
21.	Mr.S.PRADEEPAN	ASSISTANT PROFESSOR	
22.	Mr.K.R.VIGNESHWARA	ASSISTANT PROFESSOR	
23.	Mr.M.SENTHILKUMAR	ASSISTANT PROFESSOR	
24.	Mrs. ARCHANA	ASSISTANT PROFESSOR	
25.	Mr.I.MANIKANDAN.,	ASSISTANT PROFESSOR	

PROGRAM CO-COORDINATOR

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

PRINCIPAL  
Principal  
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(Autonomous)  
T.N.Palayam, Gobi (Tk),



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Name of Institution	J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	<b>Generative AI</b>
Date of Event Organized	<b>05.02.2024 to 09.02.2024</b>
No of Participants	25
Venue	Seminar Hall
Name of Chief Guest/Speakers	1.Mr.K.MANIKANDAN Assistant Professor, Department of Cyber Security, KSR College of Engineering, Thiruchengode.  2.Mr.J .VIJAYKUMAR Senior Associate, Cognizant Technology Solutions, Chennai.

## Description/Conclusion:

Generative AI refers to a class of artificial intelligence systems designed to create new content, whether it's text, images, music, or other forms of media, by learning patterns from large datasets. Unlike traditional AI, which focuses on tasks like classification and prediction, generative AI aims to produce novel outputs that resemble the data it was trained on. This technology leverages advanced techniques such as Generative Adversarial Networks (GANs), Variational Autoencoders (VAEs), and transformers to create realistic and original content. Applications of generative AI span various fields, including creative industries (art, music, writing), business (personalized marketing, content automation), healthcare (drug discovery), and entertainment (game design, virtual worlds). It is transforming industries by enhancing

  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**EVENT : FACULTY DEVELOPMENT PROGRAM**

**TOPIC : Generative AI**

**DATE : 05.02.2024 to 09.02.2024**

**THE RESOURCE PERSON : Mr.J .VIJAYKUMAR**

**NO.OF FACULTY BENIFITTED : 25**



**Principal**

**J.K.K.Munirajah College of Technology**  
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**Erode (Dt) - 638 506**


productivity, enabling creativity, and solving complex problems, while also raising ethical questions regarding issues like deepfakes, copyright, and the impact on employment.


### **The major objectives**


- Generative AI is employed in simulation tasks, such as creating virtual environments, 3D models, and animations, which are useful in industries like gaming, training, education, and entertainment
- Generative AI is often designed not to replace human workers but to collaborate with them. The goal is to create systems that assist humans in various tasks—whether generating text for writers or offering design suggestions for artists—enabling more effective and innovative collaboration.
- Generative models themselves can be used to create synthetic data that can improve the training of other AI systems, particularly in areas where labeled data is scarce or difficult to obtain.

### **Benefits of Generative AI**

- **Creative Content Generation**
  - Art, design, music, and writing creation.
- **Automation of Routine Tasks**
  - Text generation, code creation, and customer support automation.
- **Personalization**
  - Tailored marketing, product recommendations, and user experiences.
- **Enhanced Problem Solving and Innovation**
  - Simulation, modeling, and product development.
- **Cost and Time Efficiency**
  - Faster development, reduced operational costs, and resource savings.
- **Data Synthesis and Augmentation**
  - Generation of synthetic data and improved data augmentation for AI models.
- **Improved Decision-Making**
  - Predictive analytics, scenario modeling, and risk assessment.
- **Enhanced Accessibility**
  - Language translation, transcription, and assistive technologies.

  
PROGRAM CO-COORDINATOR

  
**Principal**  
J.K.K.Munirajah College of Technology  
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**PRINCIPAL**  
**Principal**  
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**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT PROGRAM**

**From**

Dr.N.Sathyabalaji,  
Associate Professor & Head,  
Department of Computer Science and Engineering,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Computer Science and Engineering has planned to organize a one-week Faculty Development Program (FDP) in the topic of "**R Programming For Budding Data Analysts**" from **18.12.2023 to 23.12.2023**. For the benefit of our college all department staff updates their knowledge about the Data Analytics. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

Yours Sincerely,

(Dr.N. SATHYABALAJI)

*Received*  
*[Signature]*

**Principal**  
**J.K.K. Munirajah College of Technology**  
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**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**



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**JKKMCT/CIRCULAR/DEC-2023**


**DATE: 08/12/2023**


**CIRCULAR**

The Department of Computer Science and Engineering is planning to organize a faculty development program on "R Programming For Budding Data Analysts" for the benefit of the faculty from 18.12.2023 to 23.12.2023. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 13/12/2023.

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
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Notice Board

  
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JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY.  
T.N. PALAYAM (Po)-638 506.  
GOBI (Tk), ERODE (Dt).

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

## Invited Speakers

1.Mrs.SUGUNA ANGAMUTHU,  
Department of Information Technology  
Nandha Engineering College  
Erode,

2.Dr.A. RAMESHKUMAR,  
Managing Director  
Alpha Solutions,  
Chennai.



Mail your Registration forms:

Dr.N. SATHYABALAJI,  
Associate Professor & Head/CSE,  
J.K.K. Munirajah College of Technology,  
Gobichetipalayam,  
Erode Dt -638 506.

Phone: 04285 – 260755.

Email: [hodcse@jkkmct.edu.in](mailto:hodcse@jkkmct.edu.in)

## Registration Committee

Mr.E.ANANTH                    9791847207  
Mrs.P. SASIREKA            9659949199  
Mrs.P.POORNAPRIYA        9698197965

## Organising Committee

### Chief Patron

Mrs.M.Kasthuripriya,M.B.A.,  
Secretary  
J.K.K.Munirajah Group of Educational  
Institution.

### Patron

Dr.K.Sridharan  
Principal,  
JKKM. College of Technology.

### Convener

Dr.N.Sathyabalaji,  
Associate Professor & Head,  
Department of Computer Science and  
Engineering,  
J.K.K. Munirajah College of Technology.

## Participant/Selection Procedure

Faculty members, Research Scholars  
and our other institution faculty  
members. Maximum number of  
participants is limited to 50, hence, the  
selection will be based on first-come,  
first-served basis.

## No Registration Fee

Registration can be made through  
<http://www.jkkmct.org/rec-fdp-2023> No  
TA/DA will be given.

## Important Dates

Last date for receipt of filled in  
applications: 13th DEC 2023

Date of intimation regarding selection:  
14th DEC, 2023

## FACULTY DEVELOPMENT PROGRAM (FDP)

On

R Programming For Budding Data  
Analysts

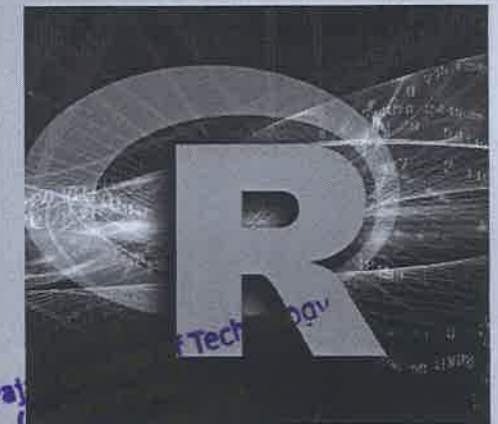
(18.12.2023 TO 23.12.2023)

Organized by

Department of Computer Science and  
Engineering

## J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

T. N. PALAYAM,  
GOBICHETTIPALAYAM,  
ERODE DT, TN-638 056



J.K.K. Munirajah  
T.N. Palayam,  
Erode (Dt) - 638 506

## About the College

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai .K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

## About the Department

The J.K.K.Munirajah college of Technology has introduced the 4year courses are B.E (Computer Science and Engineering) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Computer Science Engineering strives towards updating the syllabus. So that the students are always equipped with advanced technology to meet Industria. standard Hi tech Laboratories also render the necessary expertise

## About FDP

The Faculty Development Program (FDP) on R Programming For Budding Data Analysts is designed to equip participants with comprehensive knowledge and practical skills in advanced programming languages, specifically focusing on R programming. This program aims to enhance participants' research capabilities and scholarly contributions by using data analytic techniques into their academic and professional work.

Participants will learn R Programming for Budding Data Analysts focuses on using R, a statistical programming language, to analyze data efficiently. It is ideal for data analysts due to its strong statistical capabilities, data manipulation features, and powerful visualization tools.

### The Major Objectives

- Understand R Basics: Learn R syntax, variables, data types, and control structures.
- Data Manipulation: Master techniques to clean, transform, and structure data using packages like dplyr.
- Statistical Analysis: Perform basic statistical operations, including hypothesis testing and regression.
- Data Visualization: Create effective and informative visualizations with ggplot2.
- Reproducible Analysis: Use R Markdown to document and share reproducible reports.
- Problem-Solving Skills: Develop the ability to tackle real-world data analysis challenges using R.

## REGISTRATION FORM

### R Programming For Budding Data Analysts

On

18.12.2023 TO 23.12.2023

Name (in BLOCK LETTERS) Mr. / Ms / Dr.

\_\_\_\_\_

Designation & Department

\_\_\_\_\_

Name of the Institution/Organization

\_\_\_\_\_

Address for Communication

\_\_\_\_\_  
-----  
-----  
-----

E-Mail

\_\_\_\_\_

Contact Number

\_\_\_\_\_

Signature

Place:

Signature of Principal



# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

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## R PROGRAMMING FOR BUDDING DATA ANALYSTS


(18.12.2023 TO 23.12.2023)

### SCHEDULE PLAN

DATE	9.30 TO 11.30 AM		11.45AM TO 1.00 PM		2.00PM TO 4.30PM
18.12.2023	Registration and Inauguration	<b>TEA BREAK</b>	Introduction to R	<b>LUNCH BREAK</b>	Installation of R and RStudio
19.12.2023	Data Types		Data Structures – Vector, Lists		Data Structures – Factor
20.11.2023	Data Structures – Matrix, Array, Data Frame		Functions and Packages in R		Probability Distribution in R
21.11.2023	Chi Square using R		Chi Square using R		t – test using R
22.11.2023	t – test using R		ANOVA Using R		ANOVA Using R
23.11.2023	Correlation using R		Regression using R		Valedictory function and Feedback of the participants

  
CO-ORDINATOR

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

  
**PRINCIPAL**  
JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T.N. PALAYAM (PO) - 638 506.  
GOBI (TK), ERODE (DT):



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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506  
**R PROGRAMMING FOR BUDDING DATA ANALYSTS**  
(18.12.2023 to 23.12.2023)  
**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	Dr.N.SATHYABALAJI	ASSOCIATE PROFESSOR AND HOD	
2.	Mr.R.GNANASEKAR	ASSISTANT PROFESSOR	
3.	Mr.S.DHARANITHARAN	ASSISTANT PROFESSOR	
4.	Mr.S.B.MANOOJKUMAAR	ASSISTANT PROFESSOR	
5.	Ms.V.NIROSHA	ASSISTANT PROFESSOR	
6.	Mrs.P.POORNAPRIYA	ASSISTANT PROFESSOR	
7.	Mr. SATHEESH S	ASSISTANT PROFESSOR	
8.	Ms.K.S.VINOTHAN	ASSISTANT PROFESSOR	
9.	Mrs.M.C.SAVITHRI	ASSISTANT PROFESSOR	
10.	Mr.E.ANANTH	ASSISTANT PROFESSOR	
11.	Mrs. SASIREKA	ASSISTANT PROFESSOR	
12.	Ms.S.ABINAYA.,	ASSISTANT PROFESSOR	
13.	Mr.P.DHAKSHINAMOORTHY	ASSISTANT PROFESSOR	
14.	Mrs.N.MYTHILI	ASSISTANT PROFESSOR	
15.	Mrs.D.NIVETHINI	ASSISTANT PROFESSOR	
16.	Mrs.S.KANIMOZHI	ASSISTANT PROFESSOR	
17.	Mr.V.ESWARAMURTHY	ASSISTANT PROFESSOR	
18.	Mr.A.SAMBATHKUMAR	ASSISTANT PROFESSOR	
19.	Mrs.M.RENUKADEVI	ASSISTANT PROFESSOR	
20.	Mr.S.SUDHAKAR	ASSISTANT PROFESSOR	
21.	Mr.S.PRADEEPAN	ASSISTANT PROFESSOR	
22.	Mr.K.R.VIGNESHWARA	ASSISTANT PROFESSOR	
23.	Mr.M.SENTHILKUMAR	ASSISTANT PROFESSOR	
24.	Mrs. ARCHANA	ASSISTANT PROFESSOR	
25.	Mr.I.MANIKANDAN.,	ASSISTANT PROFESSOR	

PROGRAM CO-COORDINATOR

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),

PRINCIPAL

PRINCIPAL  
JKK MUNIRAJAH COLLEGE  
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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

Name of Institution	J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	R Programming For Budding Data Analysts
Date of Event Organized	18.12.2023 TO 23.12.2023
No of Participants	25
Venue	Seminar Hall
Name of Chief Guest/Speakers	1.MRS.SUGUNA ANGAMUTHU, Department of Information Technology Nandha Engineering College Erode,  2.DR.A. RAMESHKUMAR, Managing Director Aalpha Solutions, Chennai.

### Description/Conclusion:

R programming is an essential tool for aspiring data analysts, offering a powerful, open-source language for statistical computing and data visualization. It provides key features like flexible data structures (vectors, matrices, data frames), efficient data manipulation with libraries like dplyr and tidyr, and robust statistical analysis capabilities, including hypothesis testing and regression. R's visualization packages, especially ggplot2, make it easy to present data insights. Budding analysts can leverage RStudio, an integrated development environment (IDE), and the Tidyverse collection of tools to streamline workflows. With hands-on practice, R allows analysts to clean, analyze, and visualize data, making it a valuable skill for anyone pursuing a career in data science.

**Principal**  
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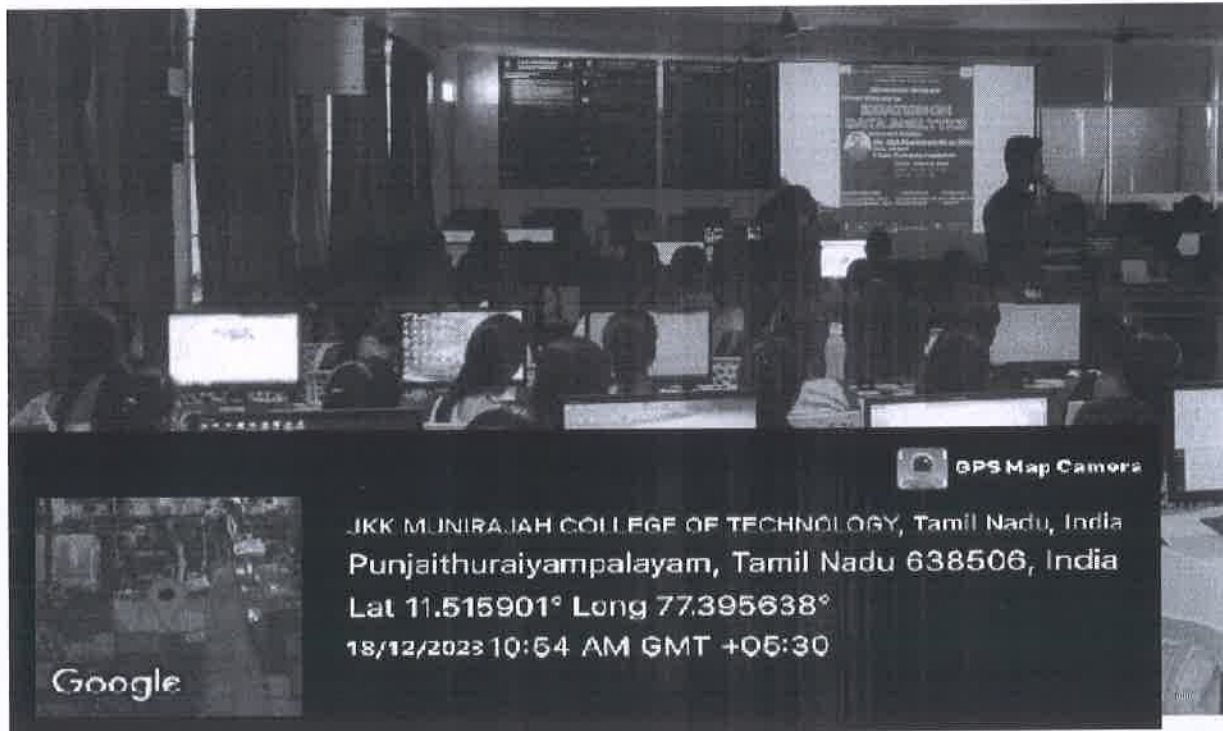


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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**EVENT** : FACULTY DEVELOPMENT PROGRAM  
**TOPIC** : R Programming For Budding Data Analysts  
**DATE** : 18.12.2023 to 23.12.2023  
**THE RESOURCE PERSON** : Dr.A. RAMESHKUMAR  
**NO.OF FACULTY BENIFITTED** : 25

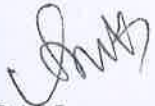


**Prindpal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506


## The major objectives

- ❖ **Mastering Data Structures:** Understanding and utilizing R's core data structures such as vectors, matrices, data frames, and lists for effective data management.
- ❖ **Efficient Data Manipulation:** Learning how to clean, filter, and transform data using packages like dplyr and tidyr.
- ❖ **Statistical Analysis:** Gaining the ability to perform statistical tests, regression analysis, and model building for data insights.
- ❖ **Data Visualization:** Acquiring skills to create informative and visually appealing charts and graphs using tools like ggplot2.
- ❖ **Leveraging RStudio and Tidyverse:** Becoming proficient in using RStudio as an IDE and utilizing the Tidyverse for streamlined, efficient workflows.
- ❖ **Real-World Application:** Developing the ability to apply R to real-world data analysis tasks and effectively communicate findings through data-driven reports and visualizations.

R programming is crucial in data analysis and data science due to its specialized focus on statistical computing and data visualization. Its extensive libraries and packages, such as dplyr for data manipulation and ggplot2 for visualization, make it an invaluable tool for handling complex datasets and generating meaningful insights. R's flexibility allows it to cater to both simple and advanced analysis, making it suitable for a wide range of applications from academic research to industry projects. As an open-source language, R is cost-effective, continuously updated, and supported by a robust community. Its emphasis on reproducibility, along with its adoption across diverse fields like finance, healthcare, and research, solidifies R as a powerful tool for anyone involved in data-driven decision-making and analysis.

  
PROGRAM CO-COORDINATOR

  
PRINCIPAL

  
Principal  
J.K.K. Munirajah College of Technology;  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

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## **APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT PROGRAM**

**From**

Dr.N.Sathyabalaji,  
Associate Professor & Head,  
Department of Computer Science and Engineering,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Computer Science and Engineering has planned to organize a one-week Faculty Development Program (FDP) in the topic of "**Python Applications in Real World and NVMe Storage Introduction**" from **13.11.2023 to 18.11.2023**. For the benefit of our college all department staff updates their knowledge about the python. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

Yours Sincerely,

(Dr.N. SATHYABALAJI)

*Permitted*  
*[Signature]*

*[Signature]*  
**PRINCIPAL**  
**JKK MUNIRAJAH COLLEGE**  
**OF TECHNOLOGY**  
**T.N. PALAYAM (Po), Erode**  
**GOBICHETIPALAYAM**



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**JKKMCT/CIRCULAR/NOV-2023**

**DATE: 06/11/2023**

**CIRCULAR**

The Department of Computer Science and Engineering is planning to organize a faculty development program on “Python Applications in Real World and NVMe Storage Introduction” for the benefit of the faculty from **13.11.2023 to 18.11.2023**. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 10/11/2023.

**PRINCIPAL**

**PRINCIPAL  
JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506,  
GOBI (Tk), ERODE (Dt).**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

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JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506.  
GOBI (Tk), ERODE (Dt).**

## INVITED SPEAKERS

1. Dr. K. GANESH KUMAR,

**Professor**

Department of Information Technology

Vellalar College Of Engineering and Technology,

Thindal,

Erode.

2. Dr. A. RAMESHKUMAR,

Managing Director

Aalpha Solutions, Salem.



Mail your Registration forms:

Dr. N. SATHYABALAJI,

Associate Professor & Head/CSE,

J.K.K. Munirajah College of Technology,

Gobichettipalayam,

Erode Dt -638 506.

Phone: 04285 - 260755.

Email: [hodcse@jkkmct.edu.in](mailto:hodcse@jkkmct.edu.in)

## REGISTRATION COMMITTEE

Mrs. D. Nivethini 98947 14454

Mrs. M. C. Savithiri 93615 37250

## ORGANISING COMMITTEE

### CHIEF PATRON

Mrs. M. Kasthuripriya, M.B.A.,

Secretary

J.K.K. Munirajah Group of Educational

Institution.

### Patron

Dr. K. Sridharan

Principal,

JKKM. College of Technology.

### Convener

Dr. N. Sathyabalaaji,

Associate Professor & Head,

Department of Computer Science and

Engineering,

J.K.K. Munirajah College of Technology,

## SELECTION PROCEDURE

Faculty members, Research Scholars and

our other institution faculty members.

Maximum number of participants is limited

to 50, hence, the selection will be based on

first-come, first-served basis.

No Registration Fee

Registration can be made through

<http://www.jkkmct.org/rec-fdp-2023> No

TA/DA will be given.

## IMPORTANT DATES

Last date for receipt of filled in applications:

02th NOV, 2023

Date of intimation regarding selection:

03th NOV, 2023

## FACULTY DEVELOPMENT PROGRAM

(FDP)

On

Python Applications in Real

World and NVMe Storage

Introduction

(13/11/2023 to 18/11/2023)

Organized by

Department of Computer Science

and

Engineering

**J.K.K. MUNIRAJAH COLLEGE**

**OF TECHNOLOGY**

T. N. PALAYAM,

GOBICHETTIPALAYAM,

ERODE DT, TN-638 056



*[Handwritten signature]*

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (TN)  
Erode (Dt) - 638 506

## About the College

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai .K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbibed in deep spiritual values and a philanthropist.

The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland.

## About the Department

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## About FDP

The Faculty Development Program (FDP) on Generative AI is designed to equip participants with comprehensive knowledge and practical skills in advanced artificial intelligence methodologies, specifically focusing on Generative AI technologies. This program aims to enhance participants' research capabilities and scholarly contributions by integrating Generative AI techniques into their academic and professional work. Participants will learn effective data collection, management, and preprocessing techniques tailored for Generative AI applications. The FDP will also focus on best practices for training, fine-tuning, and evaluating Generative AI models, ensuring robust and reliable performance in diverse research scenarios.

## The Major Objectives

- Automation and Scripting: Automating repetitive tasks such as file management, system administration, and batch processing.
- Web Development: Building dynamic, data-driven websites and web applications using frameworks like Django and Flask.
- Data Science and Machine Learning: Analyzing large datasets, building predictive models, and deploying AI solutions with libraries like NumPy, Pandas, TensorFlow, and PyTorch.

## REGISTRATION FORM

### Python Applications in Real World and NVMe Storage Introduction

On

13.11.2023 to 18.11.2023

Name (in BLOCK LETTERS)

---

Designation & Department

---

Name of the Institution

---

Address for Communication

---

---

---

---

E Mail

---

Contact Number

---

Signature

Place: Signature of Principal



# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

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## PYTHON APPLICATIONS IN REAL WORLD AND NVMe STORAGE INTRODUCTION


(13.11.2023 TO 18.11.2023)

### SCHEDULE PLAN

DATE	9.30 AM TO 11.30 AM		11.45 AM TO 1.00 PM		2.00 PM TO 4.30 PM
13.11.2023	Registration and Inauguration	TEA BREAK	Data Analytics, Data visualization, Data Exploration	LUNCH BREAK	Web Scraping, Natural Language Processing, Data Wrangling
14.11.2023	Internet of Things (IoT): Introduction		Architecture, Implementation, IoT Standards and Protocols		IoT Supported Devices, Future of IoT
15.11.2023	NVMe over fabric Two types of fabric transports for NVMe		NVMe over Fabrics Technical Characteristics		Differences between local NVMe and NVMe over Fabrics NVMe Transport Mapping
16.11.2023	Keras, TensorFlow, and Scikit-learn for AI Pandas for broadly useful information examination		NumPy for superior logical registering and information examination SciPy for cutting edge figuring		Seaborn for information perception
17.11.2023	How APIs work?		what is API, why do we need API?		what is API, why do we need API?
18.11.2023	API testing tools- POSTMAN		API through Python		Valedictory function and Feedback of the participants

  
CO-ORDINATOR

  
**PRINCIPAL**  
JKK MUNIRAJAH COLLEGE  
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T.N. PALAYAM (Po)-638 506.  
GOBI (Tk), ERODE (Dt).

  
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**PYTHON APPLICATIONS IN REAL WORLD AND NVME STORAGE INTRODUCTION**  
(13.11.2023 to 18.11.2023)  
**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	Dr.N.SATHYABALAJI	ASSOCIATE PROFESSOR AND HOD	
2.	Mr.R.GNANASEKAR	ASSISTANT PROFESSOR	
3.	Mr.S.DHARANITHARAN	ASSISTANT PROFESSOR	
4.	Mr.S.B.MANOOJKUMAAR	ASSISTANT PROFESSOR	
5.	Ms.V.NIROSHA	ASSISTANT PROFESSOR	
6.	Mrs.P.POORNAPRIYA	ASSISTANT PROFESSOR	
7.	Mr. SATHEESH S	ASSISTANT PROFESSOR	
8.	Ms.K.S.VINOTHAN	ASSISTANT PROFESSOR	
9.	Mrs.M.C.SAVITHRI	ASSISTANT PROFESSOR	
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11.	Mrs. SASIREKA	ASSISTANT PROFESSOR	
12.	Ms.S.ABINAYA.,	ASSISTANT PROFESSOR	
13.	Mr.P.DHAKSHINAMOORTHY	ASSISTANT PROFESSOR	
14.	Mrs.N.MYTHILI	ASSISTANT PROFESSOR	
15.	Mrs.D.NIVETHINI	ASSISTANT PROFESSOR	
16.	Mrs.S.KANIMOZHI	ASSISTANT PROFESSOR	
17.	Mr.V.ESWARAMURTHY	ASSISTANT PROFESSOR	
18.	Mr.A.SAMBATHKUMAR	ASSISTANT PROFESSOR	
19.	Mrs.M.RENUKADEVI	ASSISTANT PROFESSOR	
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21.	Mr.S.PRADEEPAN	ASSISTANT PROFESSOR	
22.	Mr.K.R.VIGNESHWARA	ASSISTANT PROFESSOR	
23.	Mr.M.SENTHILKUMAR	ASSISTANT PROFESSOR	
24.	Mrs. ARCHANA	ASSISTANT PROFESSOR	
25.	Mr.I.MANIKANDAN.,	ASSISTANT PROFESSOR	

PROGRAM CO-COORDINATOR

**PRINCIPAL**  
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**OF TECHNOLOGY**  
**T.N. PALAYAM (Po)-638 506.**  
**Gobi (Tk), ERODE (Dt).**

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**Gobi (Tk), ERODE (Dt).**



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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

Name of Institution	J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Title of the Event	Python Applications in Real World and NVMe Storage Introduction
Date of Event Organized	13/11/2023 to 18/11/2023
No of Participants	25
Venue	Seminar Hall
Name of Chief Guest/Speakers	1.DR.K. GANESH KUMAR, Department of Information Technology Vellalar College Of Engineering and Technology, Thindal, Erode.  2.DR.A. RAMESHKUMAR, Managing Director, Aalpha Solutions, Chennai.

## Description/Conclusion:

Python is a versatile and widely adopted programming language, used across various industries for real-world applications. Its simplicity, readability, and extensive library ecosystem make it ideal for tasks like web development, data science, machine learning, automation, and cybersecurity. Python powers applications ranging from AI-driven tools like voice assistants to financial modeling, scientific research, and game development. Its flexibility allows developers to create robust, scalable, and efficient solutions, making it a key enabler of innovation in technology and business.

NVMe (Non-Volatile Memory Express) is a high-performance storage protocol designed to exploit the full speed potential of solid-state drives (SSDs) by connecting them directly to the CPU via the PCIe interface. Unlike older storage technologies, NVMe drastically reduces latency and boosts data transfer speeds, making it ideal for data-intensive applications in data centers, cloud computing, gaming, and high-performance computing. NVMe provides superior speed, energy efficiency, and scalability, offering a significant advantage over traditional storage solutions. It is becoming a cornerstone in modern data storage infrastructure, meeting the growing demands for faster, more reliable storage systems

**PRINCIPAL**  
**JKK MUNIRAJAH COLLEGE**  
**OF TECHNOLOGY**



## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

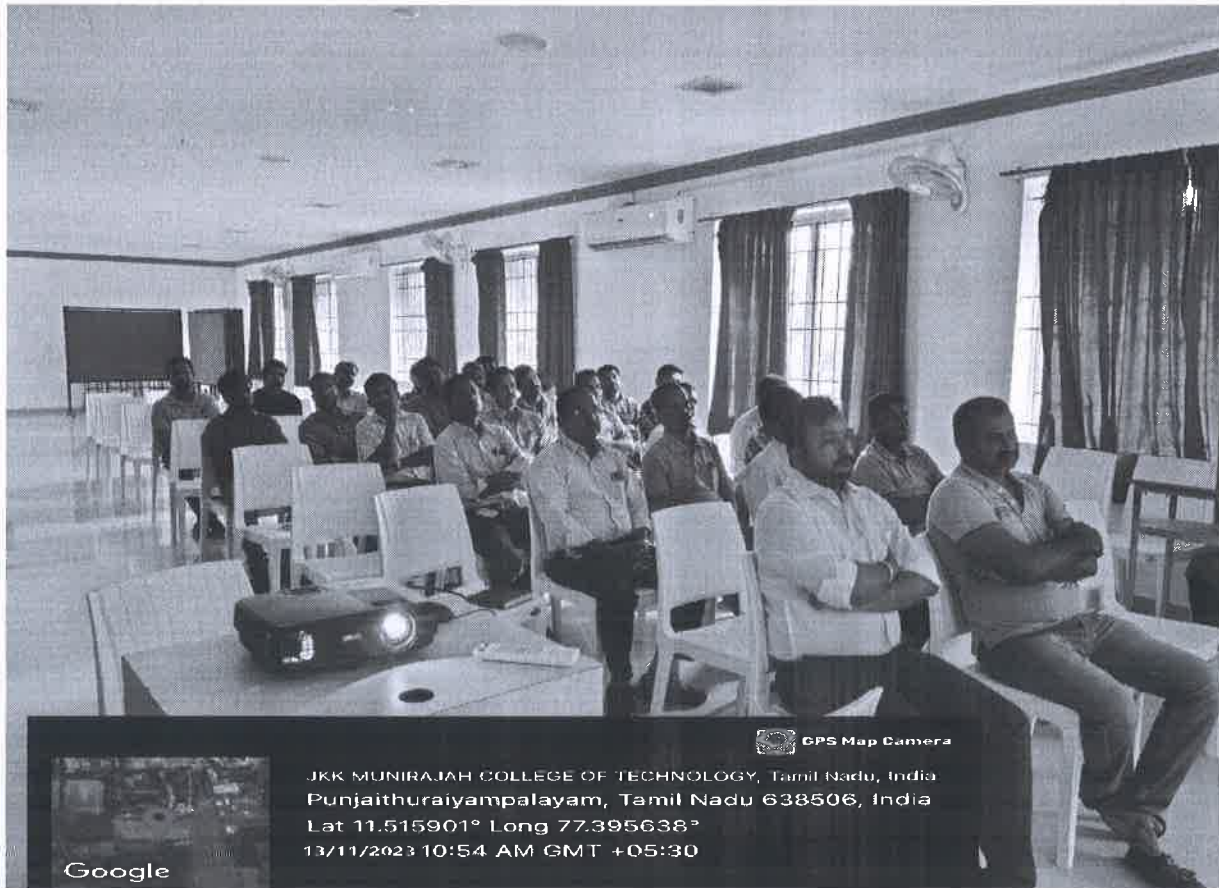
Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**EVENT** : FACULTY DEVELOPMENT PROGRAM  
**TOPIC** : Python Applications in Real World and NVMe Storage Introduction  
**DATE** : 13.11.2023 to 18.11.2023  
**THE RESOURCE PERSON** : Dr.K. GANESH KUMAR,  
**NO.OF FACULTY BENIFITTED** : 25



*J. K. K. Munirajah*

**Principai**

**J.K.K.Munirajah College of Technology**

**(Autonomous)**

**T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

## The major objectives

- **Simplicity and Readability:** To make programming easier, promoting the development of applications across different industries with minimal effort.
- **Wide Adoption Across Fields:** To provide robust solutions in areas like web development, data science, machine learning, automation, and cybersecurity.
- **Flexibility:** To allow developers to implement Python in diverse domains, including finance, healthcare, gaming, AI, and more.
- **Productivity:** To enable rapid development and prototyping, shortening the time to market for innovative solutions.
- **Improved Speed and Performance:** To significantly reduce latency and increase data transfer rates for demanding applications.
- **High Throughput:** To allow the handling of large datasets and high-performance workloads, especially in data centers, cloud computing, and gaming.
- **Energy Efficiency:** To provide faster storage solutions with lower power consumption compared to traditional storage systems.
- **Scalability and Parallelism:** To support high levels of concurrency, allowing multiple commands and queues for efficient data processing.
- **Next-Gen Storage Solutions:** To offer cutting-edge storage technology, ensuring a smooth transition to future applications and workloads that demand higher speeds and lower latency.

Python plays a crucial role in the real world due to its versatility, ease of use, and wide application across various industries. Its simple syntax makes it accessible to developers of all skill levels, and its extensive libraries and frameworks enable rapid development of solutions in fields like data science, artificial intelligence, web development, automation, and cybersecurity. Python is integral to creating scalable and efficient applications, driving innovation in sectors ranging from finance to healthcare and beyond. Similarly, NVMe (Non-Volatile Memory Express) storage is vital in modern computing due to its ability to deliver significantly faster data transfer speeds, lower latency, and greater scalability compared to older storage technologies. This makes it indispensable for applications that require high performance, such as data centers, cloud services, real-time analytics, and gaming. NVMe's energy efficiency and support for parallel processing make it an ideal choice for handling large volumes of data in high-demand environments, ensuring that storage solutions can meet the growing needs of next-generation technologies. Both Python and NVMe are foundational in driving technological advancements and improving efficiency across diverse fields.



PROGRAM CO-COORDINATOR



PRINCIPAL



**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),

**PRINCIPAL**  
JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY

**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAM**

**From**

Dr. C.MURUGESAN,  
Professor & Head,  
Department of Electronics & Communication Engineering  
J.K.K. Munirajah College Of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Electronics & Communication Engineering has planned to organize a one week Faculty Development Program (FDP) in the topic of “**IOT for Emerging Technical Application**” from **09.10.2023 to 14.10.2023**. For the benefit of our college all department staff updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

*OK*  
*[Signature]*

*[Signature]*  
**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

Yours Sincerely,  
*[Signature]*  
**(Dr. C. Murugesan)**



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**JKKMCT/CIRCULAR/OCT-20**

**DATE: 04/10/2023**


**CIRCULAR**

The Department of Electronics & Communication is planning to organize a FDP on "IOT for Emerging Technical Application" for the benefit of the faculty from 09.10.2023 to 14.10.2023. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 07/10/2023.

  
PRINCIPAL  
PRINCIPAL  
JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506.  
GOBI (Tk), ERODE (Dt).

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

Invited Speakers

Organising Committee



edee@ikkm.edu.in

DEVELOPMENT  
(FDP)

Emerging  
Application

(14/10/2023)

by

Department of Electronics &  
Communication Engineering



J.K.K. COLLEGE

OF TECHNOLOGY

T.N. PALAYAM,  
Gobi (Tk),  
Tamil Nadu - 638 056

  
Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Tamil Nadu - 638 056

### About the College

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering worldclass quality in Education and Training in a structured and systematic manner J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist,technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of- the- art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

### About the Department

The J.K.K. Munirajah college of Technology has introduced the 4year courses are B.E (Electronics and Communication Engineering) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Electronics and Communication Engineering Strives towards updating the syllabus. So that the students are always equipped with advanced technology to meet Industrial standard Hi tech Laboratories also render the necessary expertise. To develop the department as a center of excellence to take care of the local and regional needs related to Electrical Engineering activity, and to encourage students and faculty to undertake research Programme & Projects of multi – disciplinary characters

### About the National assessment and accreditation council (NAAC)

The term quality assurance usually gets associated with an external accreditation agency for identifying the level of quality of an institution, like the NAAC in India. National assessment and accreditation council (NAAC), formed under the aegis of UGC has implemented new methodology of evaluation of educational institutions in India. The new dimensions of "quality measure" as proposed by the NAAC involve continuous process of assessment of HEIs. The outcome of the assessment is the final institutional grading conferred to the institutions. UGC and NAAC have played a vital role in streamlining the quality HEIs. The process has changed the mind set of all stakeholders towards quality and its sustenance and has involved them to contribute for its achievement. They provide adequate guidelines for formulating quality assurance policies as well as for adopting systems and

Address for Communication

### NAAC Accreditation Process

- To clarify the doubts of participants regarding the 7criteria of Revised Accreditation Guidelines (2020)
- To make the participants self-reliant in preparing of Self Study Report efficiently
- To discuss qualitative and quantitative metrics (QIM and QnM) of revised NAAC Accreditation Guidelines (2020)

### REGISTRATION FORM

### FACULTY DEVELOPMENT PROGRAM (FDP)

On

### IOT for Emerging Technical Application

On

09/10/2023 to 14/10/2023

Name (in BLOCK LETTERS) Mr. / Ms / Dr,

Designation & Department

Name of the Institution/Organization

E-Mail

Contact Number Office

Mobile

Signature

Place:

Signature of Principal



# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

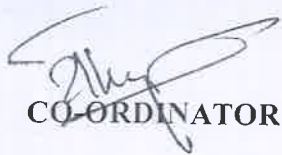


## TITLE OF THE COURSE: IOT FOR EMERGING TECHNICAL APPLICATION

FROM 09.10.2023 TO 14.10.2023

### SCHEDULE PLAN

DATE	9.30 TO 11.30 AM		11.45AM TO 1.00 PM		2.00PM TO 4.30PM	
09.10.2023	Registration and Inauguration	TEA BREAK	Introduction to IOT	LUNCH BREAK	Applications of IOT-Medical device	
10.10.2023	Protocol Stack in IOT		Sensors and Actuators		Intelligent D2D communication	
11.10.2023	Data Management and Big Data Analytics in IOT		Data Management and Big Data Analytics in IOT		Data Management and Big Data Analytics in IOT	
12.10.2023	Research Topics in IOT and Smart cities		Research Topics in IOT and Smart cities		Research Topics in IOT and Smart cities	
13.10.2023	Service Discovery in IOT		Service Discovery in IOT		Service Discovery in IOT	
14.10.2023	Software Defined Networking and Its Application over IOT Based System		Software Defined Networking and Its Application over IOT Based System		Software Defined Networking and Its Application over IOT Based System	Valedictory Function

  
CO-ORDINATOR

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

  
PRINCIPAL



# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade



T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## “IOT for Emerging Technical Application”

09.10.2023 to 14.10.2023

### PARTICIPANTS LIST

S.NO	NAME	DESIGNATION	SIGNATURE
1.	Mr. V.P.ARUL MURUGAN	ASSISTANT PROFESSOR	V.P. Arul Murugan
2.	Mr.K.GOPALAKRISHNAN	ASSISTANT PROFESSOR	K. Gopalakrishnan
3.	Mr.S.GANESH KUMAR	ASSISTANT PROFESSOR	S. Ganesh Kumar
4.	Mr.P.ESWARAN,M.E.,	ASSISTANT PROFESSOR	P. Eswaran
5.	Mrs.U.SASIKALA.	ASSISTANT PROFESSOR	U. Sasikala
6.	Mrs.R.KOKILA.	ASSISTANT PROFESSOR	R. Kokila
7.	Mrs.N.GOMATHI.	ASSISTANT PROFESSOR	N. Gomathi
8.	Mrs.M.SIVARANJANI.	ASSISTANT PROFESSOR	M. Sivaranjani
9.	Mrs.B.P.BRIGHT THANGA MAHIZH.	ASSISTANT PROFESSOR	B. P. Bright Thanga Mahizh
10.	Ms.S.ABINAYA.	ASSISTANT PROFESSOR	S. Abinaya
11.	Mr.P.DHAKSHINAMOORTHY.	ASSISTANT PROFESSOR	P. Dhakshinamoorthy
12.	Mrs.N.MYTHILI.,	ASSISTANT PROFESSOR	N. Mythili
13.	Mr.T.S.THAMBIRAN.	ASSISTANT PROFESSOR	T. S. Thambiran
14.	Mr.S.M.PRANESH.,	ASSISTANT PROFESSOR	S. M. Pranesh
15.	Mr.A.VIGNESHKUMAR.	ASSISTANT PROFESSOR	A. Vignesh Kumar
16.	Mr.P. MANIKANDAN.,	ASSISTANT PROFESSOR	P. Manikandan
17.	Mr.A. CHINNATHAMBI.	ASSISTANT PROFESSOR	A. Chinnambhi
18.	Mr.G.PALANISAMY.	ASSISTANT PROFESSOR	G. Palanisamy
19.	Mr.R.DHIVYA.,	ASSISTANT PROFESSOR	R. Dhivya
20.	Mr.G. RAMACHANDRAN.	ASSISTANT PROFESSOR	G. Ramachandran
21.	Mrs.P. KARTHIKA	ASSISTANT PROFESSOR	P. Karthika
22.	Ms.M.MOHANAAMBIKA	ASSISTANT PROFESSOR	M. Mohana Ambika
23.	Dr.N. SANKAR	ASSISTANT PROFESSOR	N. Sankar
24.	Mr.K.GOVINTHASAMY.	ASSISTANT PROFESSOR	K. Govinthasamy
25.	Mr.S.KARTHIKEYAN.	ASSISTANT PROFESSOR	S. Karthikeyan

26.	Mr.V. SABARIVASAN	ASSISTANT PROFESSOR	V. Sabari
27.	Mr.E.PRABHURAJ.	ASSISTANT PROFESSOR	E. Prabhuraj
28.	Mr.K.S.RAMESH.	ASSISTANT PROFESSOR	K.S. Ramesh
29.	Mr.M.SIVAKUMAR.	ASSISTANT PROFESSOR	M. Sivakumar
30.	Ms. PREJITHA S	PG STUDENT	Prejitha S
31.	Mr.ROOPAN DURAI	PG STUDENT	Roopan Durai
32.	Ms. M AMSAVENI	PG STUDENT	M. Amshaveni
33.	Ms.P DHARANI	PG STUDENT	P. Dharaani



**PROGRAM CO-COORDINATOR**



**PRINCIPAL**



**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**



## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.



Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Title of the Event	"IOT for Emerging Technical Application"
Date of Event Organized	09/10/2023 to 14/10/2023
No of Participants	33
Venue	Seminar Hall
Name of Chief Guest/Speakers	<p><b>Dr. S.NATESH KANNAN,</b> IOT developer, Casperson technologies Pvt ltd, No 10, 11 Level 5, Chennai citi Centre, Dr Radha Krishnan Salai, Myla pore, Chennai-600005, Tamilnadu.</p> <p><b>Dr.A.R.RANGANATHAN,</b> Ohmtronixs, Shanthi Nivas, LIC colony , 3<sup>rd</sup> cross street, Pammal, Chennai-600075 Tamilnadu.</p>

### Description/Conclusion:

The Internet of Things (IoT) is a network of physical objects that can connect and share data with other devices and systems over the internet. The goal of IoT is to create devices that can communicate with each other and users in real time



## ➤ The major objectives

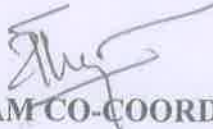
Devices	IoT devices, also known as "smart objects", can include household objects, wearables, industrial machinery, and transportation systems.
Purpose	IoT enables devices to communicate with each other and perform tasks autonomously.
Benefits	IoT can help businesses automate processes, reduce labor costs, and improve service delivery.
Applications	IoT can be used for many purposes, including monitoring environmental conditions, managing traffic, controlling machines, and tracking inventory.

## Examples


IoT can help businesses improve operational efficiency, reduce costs, and enhance customer satisfaction. Some ways to measure operational efficiency include:

- Tracking the reduction in time and resources needed to complete tasks
- Gauging enhanced customer satisfaction through customer feedback, increased retention rates, and improved service levels

IoT can also help ensure high data accuracy, system uptime, and the speed of issue resolution.

  
PROGRAM CO-COORDINATOR

  
PRINCIPAL

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAM**

**From**

Mr. M. Ponnusamy,  
Assistant Professor & Head,  
Department of Science and Humanities  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

Respected Sir,

SUB: Requesting Permission to conduct FDP-Reg.

The department of Electrical & Electronics Engineering has planned to organize a one week Faculty Development Program (FDP) in the topic of “**Innovative Teaching and Learning Pedagogy**” from **11.09.2023 to 16.09.2023**. For the benefit of our college all department staff updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thanks and regards

*Permitted*  
*Accepted*

Yours Sincerely,

*M. Ponnusamy*  
(Mr.M.Ponnusamy)

*[Signature]*

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



JKKMCT/CIRCULAR/MAY-20

DATE: 05/09/2023

**CIRCULAR**

The Department of Science and Humanities is planning to organize a FDP on "Innovative Teaching and Learning Pedagogy" for the benefit of the faculty from 11.09.2023 to 16.09.2023. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 08/09/2023.

  
PRINCIPAL

**PRINCIPAL**  
**JKK MUNIRAJAH COLLEGE**  
**OF TECHNOLOGY**  
**T.N. PALAYAM (Po)-638 506.**  
**GOBI (Tk), ERODE (Dt).**

Copy To,

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board



**Principal**  
**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**

Day 1	Work life Balance, Time Management and Productivity
Day 2	Group Discussion, Case study
Day 3	Emotional Intelligence in Teaching
Day 4	Pitching innovative Teaching Practice
Day 5	Experiential Learning Pedagogy
Day 6	Effective classroom management

### SCOPE OF FDP

Faculty Development Programme (FDP) on innovative teaching and learning pedagogy may include sessions on case studies, role playing, and integrating technology. The program may also include industry visits and sessions with industry experts. The primary objectives of the FDP on Teaching Methodology were as follows:

- Update faculty members on modern teaching techniques and methodologies.
- Enhance their understanding of learner-centered teaching.
- Promote the integration of technology in the teaching-learning process.

### ABOUT JKKMCT

J.K.K. Munirajah College of Technology (Autonomous) was established in 2008 and is governed by the Annai J.K.K. Sampoorani Ammal Charitable Trust. Founded by J.K.K. Munirajah, a prominent industrialist, technocrat, distinguished educationalist, dedicated social worker, and philanthropist with deep spiritual values, the institution aims to deliver world-class education and training in a structured and systematic manner. The management has proudly completed 25 years of dedicated service to the people of India and abroad in the field of education. Spanning 250 acres of lush green land, the college offers state-of-the-art infrastructure and has earned recognition as one of the esteemed educational institutions for men and women in India. Our institute is accredited with an "A" grade by NAAC and is an ISO-certified institution.

### ABOUT THE DEPARTMENT

In our college the departments of Physics, Chemistry, English, Mathematics, and Tamil play a crucial role in shaping the students' foundational knowledge and skills. Here's a brief overview of each department's focus and significance in an engineering context: The department was established in the year 2008 with aim to provide strong fundamentals in Science and Technology under graduate courses and to develop the research activities in Applied Physics and chemistry. The commitment of members of faculty is the real strength of our department in educating the students in Mathematics. Department of English Focuses on developing communication skills, both written and verbal and Emphasizes technical writing, presentation, and soft skills.



## FACULTY DEVELOPMENT PROGRAM on "Innovative Teaching and Learning Pedagogy"

11<sup>th</sup> – 16<sup>st</sup> SEPTEMBER 2023



Organized by  
Department of Science and Humanities  
J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY

Approved by AICTE & Anna University  
Accredited by NAAC with "A" Grade ISO  
9001:2015 Certified Institution

T.N. Palayam, Gobi, Erode Dt. TN.

**Principal**

J.K.K. Munirajah College of Technology,  
(Autonomous)

T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

## Invited Speakers

**Dr. P. Prakash,**  
Assistant Professor,  
Department of Mathematics,  
Amirtha School Of Engineering,  
Amirtha Vishwa Vidyapeertham,  
Coimbatore-641112

### ELIGIBILITY

There is no registration fee from any  
participants.

All the faculties, research scholars and PG Students  
from AICTE approved institutions are eligible for the  
DP.

Number of participants is limited to 100.

Participants will be selected on first-come first-  
served basis.

Selected candidates will be intimated by E-mail  
Confirmation of participation is to be made by email  
only.

Faculty members selected for the programme  
should get the authorization certificates signed from  
the Head of the institution.

### CONTACT DETAILS

**M. Ponnusamy** – Professor and Head  
984451282  
**S. R. Shanthi** - AP/ Maths  
98445955

### ADVISORY COMMITTEE

**Mrs. Vasantha Kumari Munirajah,**  
Chairman, JKKM Institutions  
**Mrs. M. Kasthuripriya,** Secretary, JKKM  
Institutions.  
**Dr. Kirubakarmurali,** R & D, Director, JKKM  
Institutions.

### COORDINATOR

**Mr. M. PONNUSAMY,** M.Sc., M.Phil  
Prof. & Head/EEE

### ORGANIZING TEAM MEMBERS

**Mrs. S. Poornima** AP / Maths  
**Mr. R. Shanthi** AP/ Maths  
**Mrs. M. Senbagam,** AP/ Chemistry  
**Ms. S. Samyuktha** AP/ Maths  
**Mr. M. Kavitha,** AP/ Physics



*An initiative for Green Energy Transition*

### REGISTRATION FORM

## Faculty Development Program

On

18/05/2020 to 23/05/2020

Name (in BLOCK LETTERS) Mr. / Ms / Dr.

Designation & Department

Name of the Institution/Organization

Address for Communication

E-Mail

Contact Number Office

Mobile

Signature

Place:

Signature of Principal



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

FDP ON "Innovative Teaching and Learning Pedagogy"

FROM 11.09.2023 TO 16.09.2023

SCHEDULE PLAN

DATE	9.30 TO 11.30 AM		11.45AM TO 1.00 PM		2.00PM TO 4.30PM
11.09.2023	Registration and Inauguration	TEA BREAK	Work life Balance	LUNCH BREAK	Time Management and Productivity
12.09.2023	Group Discussion		Group Discussion		Case study
13.09.2023	Case study		Emotional Intelligence in Teaching		Emotional Intelligence in Teaching.
14.09.2023	Pitching innovative Teaching Practice		Pitching innovative Teaching Practice		Student – Centered Learning
15.09.2023	Student – Centered Learning		Experiential Learning Pedagogy		Experiential Learning Pedagogy
16.09.2023	Role play Methodology for innovative Teaching		Effective classroom management		Valedictory function and Feedback of the participants

*M. Suresh*  
CO-ORDINATOR

*[Signature]*  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

*[Signature]*  
PRINCIPAL



## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade



T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

### DEPARTMENT OF SCIENCE AND HUMANITIES "INNOVATIVE TEACHING AND LEARNING PEDAGOGY"

11.09.2023 to 16.09.2023

### PARTICIPANTS LIST

S.NO	NAME	DESIGNATION	SIGNATURE
1.	MR.R. GNANASEKAR	ASSISTANT PROFESSOR	R. Gnanasekar
2.	Mr.S.DHARANITHARAN	ASSISTANT PROFESSOR	S. Dharanitharan
3.	Ms. V.NIROSHA	ASSISTANT PROFESSOR	V. Niroscha
4.	Mrs.P.POORNAPRIYA	ASSISTANT PROFESSOR	P. Poornapriya
5.	Mr. SATHEESH S	ASSISTANT PROFESSOR	S. Satheesh
6.	Ms.K.S.VINOTHAN	ASSISTANT PROFESSOR	K.S. Vinothan
7.	Mrs.M.C.SAVITHRI.	ASSISTANT PROFESSOR	M.C. Savithri
8.	Mr.E.ANANTH	ASSISTANT PROFESSOR	E. Ananth
9.	MrS.P. SASIREKA	ASSISTANT PROFESSOR	P. Sasireka
10.	MR.N. NAVINDRAN	ASSISTANT PROFESSOR	N. Navindran
11.	Mrs.U.SASIKALA.	ASSISTANT PROFESSOR	U. Sasikala
12.	Mrs.R.KOKILA.	ASSISTANT PROFESSOR	R. Kokila
13.	Mrs.N.GOMATHI.	ASSISTANT PROFESSOR	N. Gomathi
14.	Mrs.M.SIVARANJANI.	ASSISTANT PROFESSOR	M. Sivaranjani
15.	Mr.P.DHAKSHINAMOORTHI.	ASSISTANT PROFESSOR	P. Dhakshinamoorthi
16.	Mrs.N.MYTHILI.	ASSISTANT PROFESSOR	N. Mythili

17.	Mr.T.S.THAMBIRAN.	ASSISTANT PROFESSOR	<i>T.S.Thambiran</i>
18.	Mr.S.M.PRANESH	ASSISTANT PROFESSOR	<i>S.M.Pranesh</i>
19.	Mr.A.VIGNESHKUMAR.	ASSISTANT PROFESSOR	<i>A.Vigneshkumar</i>
20.	Mr.P. MANIKANDAN.	ASSISTANT PROFESSOR	<i>P.Manikandan</i>
21.	Mr.G.PALANISAMY.	ASSISTANT PROFESSOR	<i>G.Palanisamy</i>
22.	Mr.R.DHIVYA.	ASSISTANT PROFESSOR	<i>R.Dhivya</i>
23.	Mr.G. RAMACHANDRAN	ASSISTANT PROFESSOR	<i>G.Ramachandran</i>
24.	Mrs.M.SENBAGAM.	ASSISTANT PROFESSOR	<i>M.Senbagam</i>
25.	Mrs.R.SHANTHI	ASSISTANT PROFESSOR	<i>R.Shanthi</i>
26.	Ms.S.SAMYUKTHA.	ASSISTANT PROFESSOR	<i>S.Samyuktha</i>
27.	Mr.E.MATHIVANAN.	ASSISTANT PROFESSOR	<i>E.Mathivanan</i>
28.	Ms.P. MAHASAKTHI	ASSISTANT PROFESSOR	<i>P.Mahasakthi</i>
29.	Mr. P.RAMESH.	ASSISTANT PROFESSOR	<i>P.Ramesh</i>
30.	MrS.M. KAVITHA	ASSISTANT PROFESSOR	<i>M.Kavitha</i>
31.	Mrs.R.CHITRA.	ASSISTANT PROFESSOR	<i>R.Chitra</i>
32.	Ms.N.CHITRA.	ASSISTANT PROFESSOR	<i>N.Chitra</i>
33.	Mr.G.TAMILSELVAN.	ASSISTANT PROFESSOR	<i>G.Tamilselvan</i>

*M. Sanyal*  
PROGRAM CO-COORDINATOR

*[Signature]*  
PRINCIPAL

*[Signature]*  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.



Accredited by NAAC with "A" Grade

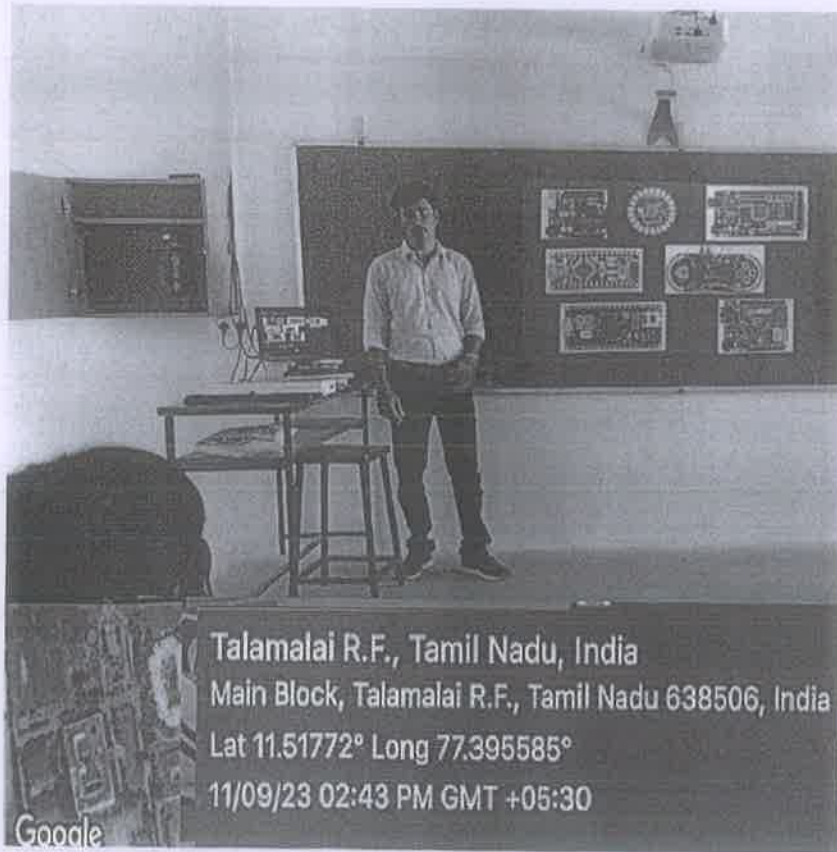
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAM
Date of Event Organized	11/09/2023 to 16/09/2023
No of Participants	33
Venue	Class Room
Name of Chief Guest/Speakers	<b>Dr. P.Prakash, Assistant Professor, Department of Mathematics, Amirtha School Of Engineering, Amirtha Vishwa Vidyapeertham, Coimbatore-641112</b>

### Description/Conclusion:

Pedagogical Emotional Competence empowers educators to navigate the emotional landscape of teaching-learning process. This mastery involves fostering positivity, empathetic communication, and employing emotionally intelligent teaching strategies. Educators with high pedagogical emotional competence can forge profound connections with students, elevating teaching effectiveness and fostering engaging educational experiences. Besides, honing research-paper skills, peer-review acumen, and interdisciplinary collaboration further covers a comprehensive academic prowess.

Faculty Development Programme (FDP) on innovative teaching and learning pedagogy may include sessions on case studies, role playing, and integrating technology. The program may also include industry visits and sessions with industry experts.



### **Effective class room management**

The sixth day was dedicated to classroom management techniques. Educators learned strategies for maintaining a positive learning environment, handling disruptions, and fostering student engagement. Case studies and role-playing exercises on learning to learn were used to illustrate effective practices.

*M. Suresh*

**PROGRAM CO-COORDINATOR**

*[Signature]*

**PRINCIPAL**

*[Signature]*

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

**APPROVAL FOR ORGANISING FACULTY DEVELOPMENT  
PROGRAMME**

**From**

Dr. C. Saravanan  
Professor & Head,  
Department of Electrical & Electronics Engineering  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**Respected Sir,**

**SUB:** Requesting Permission to conduct FDP-Reg.

The department of Electrical Engineering has planned to organize a six days Faculty Development Program (FDP) in the topic of “**Energy Harvesting Techniques for Wireless Sensor Networks**” from **21.8.2023 to 26.8.2023**, for the benefit of our college department staffs updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

**Thank You**

Yours Sincerely,

  
(Dr. C. Saravanan)

  
**Principal**  
**J.K.K. Munirajah College of Technology**  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.



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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**JKKMCT/CIRCULAR/AUG-2023**

**DATE: 07/08/2023**

**CIRCULAR**

The Department of Electrical Engineering is planning to organize a Faculty Development program on "Energy Harvesting Techniques for Wireless Sensor Networks" for the benefit of faculty members from 21.8.2023 to 26.8.2023..All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 16/8/2023.

*[Handwritten Signature]*  
16/8/23

**PRINCIPAL  
PRINCIPAL  
JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506.  
GOBI (Tk), ERODE (Dt).**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

*[Handwritten Signature]*

**Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

## ABOUT THE COLLEGE

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner J.K.K.Munirajah group of Institutions was founded by J.K.K.Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

## ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has introduced the 4 years courses are B.E (Electrical and Electronics Engineering) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Electrical and Electronic Engineering strives towards updating the syllabus. So that the students are

always equipped with advanced technology to meet Industrial standard Hi-tech Laboratories also render the necessary expertise.

## ABOUT THE PROGRAMME

The Faculty Development Program (FDP) on Energy Harvesting Techniques for Wireless Sensor Networks (WSNs) was designed to provide an in-depth understanding of the energy challenges faced by modern sensor networks and to explore innovative solutions to address these challenges through various energy harvesting techniques. The primary objective of this program was to equip participants (faculty members, researchers, and engineers) with the knowledge and practical skills required to design energy-efficient wireless sensor networks by leveraging alternative energy sources like solar, thermoelectric, piezoelectric, and RF energy.

WSNs are widely used for applications such as environmental monitoring, smart cities, agriculture, healthcare, and industrial automation. However, the energy constraints of sensor nodes often deployed in remote or hard-to-reach locations make energy harvesting a critical area of research and development. This FDP focused on enabling participants to explore the latest techniques, technologies, and practical approaches for harvesting energy in a sustainable manner.

## ONE WEEK FDP

On

## ENERGY HARVESTING TECHNIQUES FOR WIRELESS SENSOR NETWORKS

21-08-2023 to 26-08-2023



Organized by

Department of Electrical and Electronics  
Engineering

J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY, T.N.PALAYAM

Tel No: 04285-260754-55, Fax: 04285-  
260755. E-mail: [principal309@gmail.com](mailto:principal309@gmail.com),  
Website: [www.jkkmct.org](http://www.jkkmct.org)



*(Signature)*  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

## ORGANIZING COMMITTEE

**Convener** : Dr. C. Saravanan  
HOD/EEE,  
Dept. of Electrical & Electronics  
Engineering,  
JKKMCT, Gobi

**Coordinator:** Mr. S. M PRANESH,  
Assistant Professor,  
Dept. of Electrical & Electronics  
Engineering,  
JKKMCT, Gobi

**ONE WEEK FDP**

On

**ENERGY HARVESTING  
TECHNIQUES FOR WIRELESS  
SENSOR NETWORKS**

Organized by

**Department of Electrical & Electronics  
Engineering**

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY, T.N.PALAYAM**

**For Enquiry**

Mobile: 9994050050

Email: [hodeee@jkkmct.edu.in](mailto:hodeee@jkkmct.edu.in)

## SESSION DETAILS

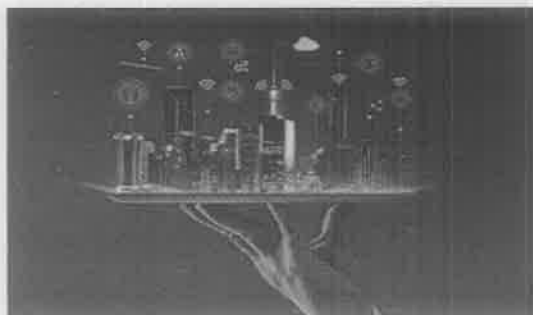
- Introduction to Power Engineering and Research Sustainable Energy Systems
- Power Systems Modeling and Simulation Techniques
- Renewable Energy Integration and Smart Grids
- Power Quality, Protection, and Reliability
- Advanced Topics in Power Electronics and Electric Vehicles
- Research Methodologies, Funding, and Industry-Academia Collaboration

## RESOURCE PERSONS

1. **Mr. M.PARTHIBAN, M.E.,**  
**Managing Director,**  
**M/s Caliber Embedded Systems,**  
**Salem**
2. **Mrs. M.VIMALADEVI**  
**HR Manager, M/s Caliber Embedded**  
**Systems, Coimbatore**

## IMPORTANT DATES

Last Date for Receipt of Registration form:  
16.08.2023



## J.K.K. MUNIRAJAH COLLEGE OF

**TECHNOLOGY**

**T.N.PALAYAM**

**ONE WEEK FDP**

On

**ENERGY HARVESTING  
TECHNIQUES FOR WIRELESS  
SENSOR NETWORKS**

**21-08-2023 to 26.08.2023**

## REGISTRATION FORM

Name: .....

Gender: Male/Female

Qualification: .....

Address for Communication:

.....

.....

.....

.....

PIN: .....

Email: .....

Mobile No: .....

Date:

Place:

**Signature of the applicant**



# J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" Grade



T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

## “ENERGY HARVESTING TECHNIQUES FOR WIRELESS SENSOR NETWORKS”

(21.08.2023 to 26.08.2023)

### SCHEDULE PLAN

Date/Time	09.30 am-10.45 am	10.45 am-11.00 am	11.00 am-12.40 pm	12.40 pm-01.30 pm	02.45 pm-03.00 pm	3.00 pm-4.30 pm
21-08-2022	Inaugural Function & Introduction to Wireless Sensor Networks(WSNs)	Tea Break	Need for Energy Harvesting in WSNs	Lunch	Basics of Energy Harvesting Techniques	Real-world Applications of Energy Harvesting in WSNs
22-08-2022	Solar Energy Harvesting for WSNs	Tea Break	Designing Solar-powered WSN Nodes	Lunch	Hands-on Session 1: Solar Energy Harvesting Setup	Data-Driven Modeling & Artificial Intelligence in Networks
23-08-2022	Thermoelectric Energy Harvesting	Tea Break	Piezoelectric Energy Harvesting	Lunch	Thermoelectric Harvesting Demonstration	Piezoelectric Harvesting Demonstration
24-08-2022	RF Energy Harvesting	Tea Break	Power Management in Energy-Harvested WSNs	Lunch	RF Energy Harvesting Setup	Group Discussion and Q&A
25-08-2022	Hybrid Energy Harvesting for WSNs	Tea Break	Energy Storage and Power Conditioning in Hybrid Systems	Lunch	Hybrid Energy Harvesting Setup	Interactive Discussion and Q&A
26-08-2022	Challenges in Energy Harvesting for WSNs	Tea Break	Future Trends in Energy Harvesting for WSNs	Lunch	Energy Consumption Challenges in WSNs	Closing Ceremony, & Feedback Session

  
CO-ORDINATOR

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

  
PRINCIPAL



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.



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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

**"ENERGY HARVESTING TECHNIQUES FOR WIRELESS SENSOR NETWORKS"**

(21.08.2023 to 26.08.2023)

**PARTICIPANTS LIST**

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	T.S.THAMBIRAN	Assistant Professor	
2.	S.M.PRANESH	Assistant Professor	
3.	A. VIGNESHKUMAR	Assistant Professor	
4.	G. RAMACHANDRAN	Assistant Professor	
5.	G.PALANISAMY	Assistant Professor	
6.	M.MOHANAMBIKA	Assistant Professor	
7.	R.DHIVYA	Assistant Professor	
8.	P. KARTHIKA	Assistant Professor	
9.	P.CHINNATHAMBI	Assistant Professor	
10.	P.MANIKANDAN	Assistant Professor	
11.	Dr.C.MURUGESAN	Professor	
12.	N. NAVINDRAN	Assistant Professor	
13.	U.SASIKALA	Assistant Professor	
14.	R.KOKILA	Assistant Professor	
15.	N.GOMATHI	Assistant Professor	


Principal

**J.K.K.Munirajah College of Technology**  
(Autonomous)

16.	M.SIVARANJANI	Assistant Professor	M. Sivarajani
17.	B.P.BRIGHT THANGA MAHIZH	Assistant Professor	B.P. Bright Thanga Mahizh
18.	S.ABINAYA	Assistant Professor	S. Abinaya
19.	P.DHAKSHINAMOORTHY	Assistant Professor	P. Dhakshinamoorthy
20.	N.MYTHILI	Assistant Professor	N. Mythili
21.	M.C.SAVITHIRI	Assistant Professor	M.C. Savithiri
22.	E.ANANTH	Assistant Professor	E. Ananth
23.	P.SASIREKA	Assistant Professor	P. Sasireka
24.	D.DHARANITHARAN	Assistant Professor	D. Dharanitharan
25.	P.POORNAPRIYA	Assistant Professor	P. Poornapriya
26.	K.S.VINOTHAN	Assistant Professor	K.S. Vinothan
27.	SATHEESH S	Assistant Professor	S. Satheesh S
28.	R. GNANASEKAR	Assistant Professor	R. Gnanasekar
29.	PREJITHA S	PG Student	Prejitha S
30.	ROOPAN DURAI G	PG Student	Roopan Durai G

  
PROGRAM CO-ORDINATOR

  
PRINCIPAL

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

### FDP REPORT

Name of Institution	J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAMME
Title of the Event	<b>ENERGY HARVESTING TECHNIQUES FOR WIRELESS SENSOR NETWORKS</b>
Date of Event Organized	<b>21.08.2023 to 26.08.2023</b>
No of Participants	30
Venue	Seminar Hall (A/C)
Name of Chief Guest/Speakers	1. <b>Mr. M. Parthiban</b> , Managing Director, M/s Caliber Embedded Systems, Salem 2. <b>Mrs. M. Vimaladevi</b> , HR Manager, M/s Caliber Embedded Systems, Coimbatore

#### **Benefits of the Energy Harvesting Techniques for Wireless Sensor Networks**

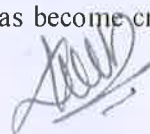
- In-Depth Knowledge of Energy Harvesting Techniques
- Hands-on Experience with Real-World Systems
- Enhanced Ability to Develop Sustainable WSNs
- Knowledge of Power Management Techniques
- Exposure to Emerging Trends and Technologies
- Promotion of Interdisciplinary Collaboration
- Contribution to Sustainable Development
- Empowerment for Research and Teaching
- Increased Awareness of Future Challenges

#### **Description:**

The Faculty Development Programme (FDP) on Energy Harvesting Techniques for Wireless Sensor Networks (WSNs) was organized with the aim of enhancing the knowledge and practical skills of faculty members, researchers, and professionals in the domain of energy-efficient sensor networks. As Wireless Sensor Networks (WSNs) become increasingly important in applications such as environmental monitoring, healthcare, industrial automation, and smart cities, the challenge of powering these networks efficiently and sustainably has become critical. This FDP

  
Principal

J.K.K. Munirajah College of Technology  
(Autonomous)

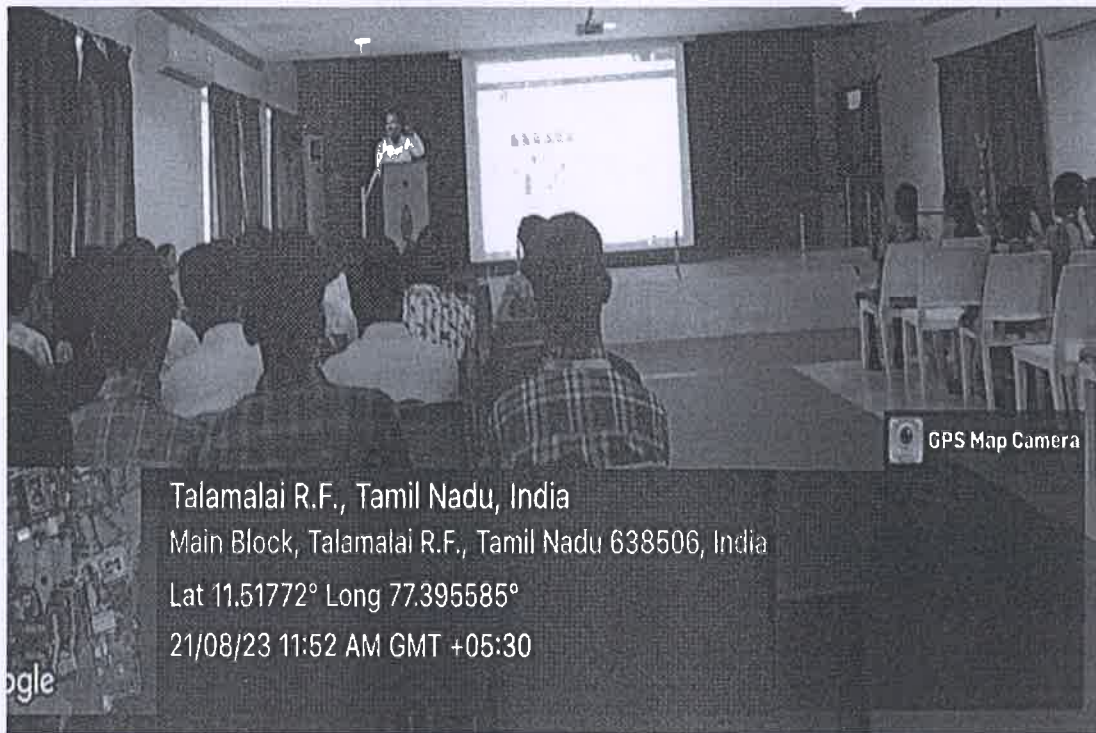


focused on energy harvesting technologies that can power sensor nodes autonomously, reducing reliance on traditional battery power sources, and thereby improving the overall efficiency and lifespan of WSNs.

**Conclusion:**

The Energy Harvesting Techniques for Wireless Sensor Networks (WSNs) FDP was a resounding success, achieving its primary objective of providing participants with a comprehensive understanding of energy harvesting techniques and their practical applications in sensor networks. The program was designed to meet the growing need for sustainable and energy-efficient systems in the field of WSNs, particularly as these networks are increasingly deployed in remote or off-grid locations where traditional power sources are unavailable.

By combining various energy harvesting methods—solar, thermoelectric, piezoelectric, and RF—the program equipped participants with the knowledge to design hybrid systems that can meet the energy demands of modern sensor networks.



**Resource Person: Mr. M. Parthiban, Managing Director, M/s Caliber Embedded Systems, Salem**

*G. Gayalaxmi*  
**PROGRAM CO-ORDINATOR**

*[Signature]*  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**

*[Signature]*  
**PRINCIPAL**

**APPROVAL FOR ORGANISING A FACULTY DEVELOPMENT  
PROGRAMME**

**From**

Mr.K.Sriram,  
Assistant Professor & Head,  
Department of Mechanical Engineering,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**To,**

The Principal,  
J.K.K. Munirajah College of Technology,  
T.N. Palayam, Gobichetipalayam,  
Erode DT-638 506.

**Respected Sir,**

**SUB:** Requesting Permission to conduct FDP-Reg.

The department of Mechanical Engineering has planned to organize a six days Faculty Development Program (FDP) in the topic of “**RECENT TRENDS IN MECHANICAL ENGINEERING**” from **17.7.2023** to **22.7.2023**, for the benefit of our college department staffs updates their knowledge. I am eagerly waiting for your feedback as I have to inform the entire faculty well in advance.

Thank You


Yours Sincerely,

  
**(Mr.K.Sriram)**

*Permitted*  

---

*Sriram*  
-1-

  
**Principal**  
**J.K.K.Munirajah College of Technology,**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506**



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**JKKMCT/CIRCULAR/JUL-2023**

**DATE: 03/07/2023**

**CIRCULAR**

The Department of Mechanical Engineering is planning to organize a Faculty Development program on "RECENT TRENDS IN MECHANICAL ENGINEERING" for the benefit of faculty members from 17.7.2023 to 22.7.2023. All the department staff members those who are interested to attend the program can enroll their names to their respective HoD's on or before 10/7/2023.

*[Handwritten Signature]*  
03/07/23

**PRINCIPAL  
PRINCIPAL**

**J.K.K. MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506.  
GOBI (TK), ERODE (DT).**

**Copy To,**

The Principal,  
All the HoD's and Staff Members,  
IQAC File  
Notice Board

*[Handwritten Signature]*

**Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**

## ABOUT THE COLLEGE

J.K.K.Munirajah is a reputed industrialist, technocrat, an educationalist, and excellence in a void social worker, a person imbued in deep spiritual values and a Philanthropist. J.K.K.Munirajah founded a Charitable Trust by name Annai.J.K.K.Sampoorani Ammal Trust, Komarapalayam-638 183, Namakkal Dt., Tamilnadu in the year of 1971. J.K.K.Munirajah established many temples of leaving to perpetuate the ever lasting memory of his beloved mother. At present Annai.J.K.K.Sampoorani Ammal Charitable Trust maintains and runs Paramedical Institutions offering Diploma, Graduate and Post Graduate courses in Pharmacy, Nursing, Physiotherapy and Occupational Therapy at Komarapalayam, Namakkal (Dt) and a Polytechnic, Community Polytechnic and a Industrial Training Center at T.N.Palayam, Erode Dt. These educational Institutions are temples of Learning and have contributed much to a formidable social change in our society. The Trust has won many National and State awards. They are renowned educational institutions spared nothing to promote knowledge, wisdom and service-orientation.

## ABOUT THE DEPARTMENT

The Mechanical Engineering Department was started in the year 2010. The department offers four years B. E -Mechanical Engineering. The department has a team of highly qualified, dedicated and motivated faculty and well

equipped laboratories with facilities for UG. B.E has been accredited by AICTE, New Delhi. The goal of the Mechanical engineering curriculum is to create a flexible undergraduate educational experience in design, mathematics, modeling, computing, management, and engineering science. Principal study topics include fluid mechanics, thermodynamics & heat transfer, solid mechanics, materials engineering, manufacturing, energy systems, dynamics & computer Aided Design (CAD) and others.

## ABOUT THE PROGRAMME

The Faculty Development Program (FDP) on "Recent Trends in Mechanical Engineering" was successfully conducted with the objective of acquainting participants with cutting-edge advancements and innovations in the field. The program brought together faculty members, industry experts, and researchers to discuss technological progress and its implications for academia and industry. The Faculty Development Program on Recent Trends in Mechanical Engineering was a successful initiative that helped faculty members stay up-to-date with the latest advancements in the field. The program enhanced their technical and pedagogical skills, enabling them to contribute effectively to both academic and industry advancements. Going forward, it is recommended that similar FDPs be organized periodically to keep educators abreast of new developments.

## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM

Accredited by NACC with "A" grade

## ONE WEEK FDP

On

## RECENT TRENDS IN MECHANICAL ENGINEERING

17-07-2023 to 22-07-2023

Organized by



Department Of Mechanical Engineering

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM

Tel No: 04285-260754-55, Fax: 04285-

260755, E-mail: [jkkmechtrix@gmail.com](mailto:jkkmechtrix@gmail.com),

Website: [www.jkkmct.org](http://www.jkkmct.org)

Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

**ORGANIZING COMMITTEE**

**Convener :** S.KARTHIKEYAN,  
Assistant Professor,  
Mechanical Engineering,  
JKKMCT, Gobi

**Coordinators:** M.SIVAKUMAR,  
Assistant Professor,  
Mechanical Engineering,  
JKKMCT, Gobi

**ONE WEEK FDP**

On

**RECENT TRENDS IN MECHANICAL  
ENGINEERING**

Department Of Mechanical Engineering

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY, T.N.PALAYAM**

Mobile: 9597553594

Email: siva36mech@gmail.com

**SESSION DETAILS**

- Sustainable Engineering Practices
- Energy-efficient designs and technologies
- Industry 4.0 and smart manufacturing
- Nanomaterial's and composites
- Robotics and Automation

**RESOURCE PERSONS**

**Dr.V.THANIGAIVELAN – M.E (Ph.d)**

Associate Professor,

SRM Institute of Science & Technology,

Ramapuram Campus

E-mail:thanigailav@gmail.com

**IMPORTANT DATES**

Last Date for Receipt of Registration form:

18.07.2023

**Principal**

**J.K.K.Munirajah College of Technic**

**(Autonomous)**

**T.N.Palayam, Gobi (Tk),**

**Erode (Dt) - 638 506**

**J.K.K. MUNIRAJAH COLLEGE OF**

**TECHNOLOGY**

**T.N.PALAYAM**

**ONE WEEK FDP**

On

**RECENT TRENDS IN MECHANICAL  
ENGINEERING**

17-07-2023 to 22.07.2023

**REGISTRATION FORM**

Name: .....

Gender: **MALE/FEMALE**

Qualification: .....

Address for Communication:

PIN.....

Email.....

Mobile No. ....

Date:

Place:

Signature of the applicant



## J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.



Accredited by NAAC with "A" Grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

### RECENT TRENDS IN MECHANICAL ENGINEERING

17.07.2023 to 22.07.2023

#### SCHEDULE PLAN

Date/Time	10.00am-11.30m	11.30am-11.45am	11.45am-1.00pm	1.00pm-2.00pm	2.00pm-4.00pm
17-07-2023	Inaugural Function	Tea Break	Introduction of Recent Trends in Mechanical Engineering	Lunch	Sustainable Engineering Practices
18-07-2023	Latest Trends in Additive Manufacturing	Tea Break	Emerging Trends in Mechanical Engineering	Lunch	Emerging Trends in Advanced Manufacturing Technology
19-07-2023	CFD Basics and Industrial Applications	Tea Break	Industry 4.0 and Smart Manufacturing	Lunch	Smart Manufacturing & Industry 4.0 - The Future of Production
20-07-2023	Nanomaterial's and composites	Tea Break	Nanotechnology and Its Role in Automotive Industry	Lunch	Advances in Composites and Nano-Materials
21-07-2023	Robotics and Automation	Tea Break	Industrial Automation with IIOT and Robotics	Lunch	Rise of the Machines: Robotics and Automation
22-07-2023	Robotic Process Automation	Tea Break	Robots in Manufacturing	Lunch	Applications of Automation and Robotics

PROGRAM CO-ORDINATOR

PRINCIPAL

Principal

J.K.K. Munirajah College of Technology

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### RECENT TRENDS IN MECHANICAL ENGINEERING

17.07.2023 to 22.07.2023

### PARTICIPANTS LIST

S.NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1.	V P ARUL MURUGAN	Assistant Professor	VP/Arul
2.	S.GANESH KUMAR	Assistant Professor	S-Ganesh
3.	E.DEEPARAJ	Assistant Professor	E.D.
4.	M.SIVAKUMAR	Assistant Professor	M. Sivakumar
5.	K.GOVINTHASAMY	Assistant Professor	K. Govindhasamy
6.	K.GOPALAKRISHNAN	Assistant Professor	K. Gopalakrishnan
7.	P.ESWARAN	Assistant Professor	P. Eswaran
8.	S.KARTHIKEYAN	Assistant Professor	S. Karthikeyan
9.	N.SANKAR	Assistant Professor	N. Sankar
10.	V.MAGESH	Assistant Professor	V. Magesh
11.	K.S.RAMESH	Assistant Professor	K. S. Ramesh
12.	K.SRIRAM	Assistant Professor	K. Sriram
13.	V. SABARIVASAN	Assistant Professor	V. Sabarivasan
14.	E.PRABHURAJ	Assistant Professor	E. Prabhuraj
15.	P.SURESH	Assistant Professor	P. Suresh

PROGRAM CO-ORDINATOR

Principal

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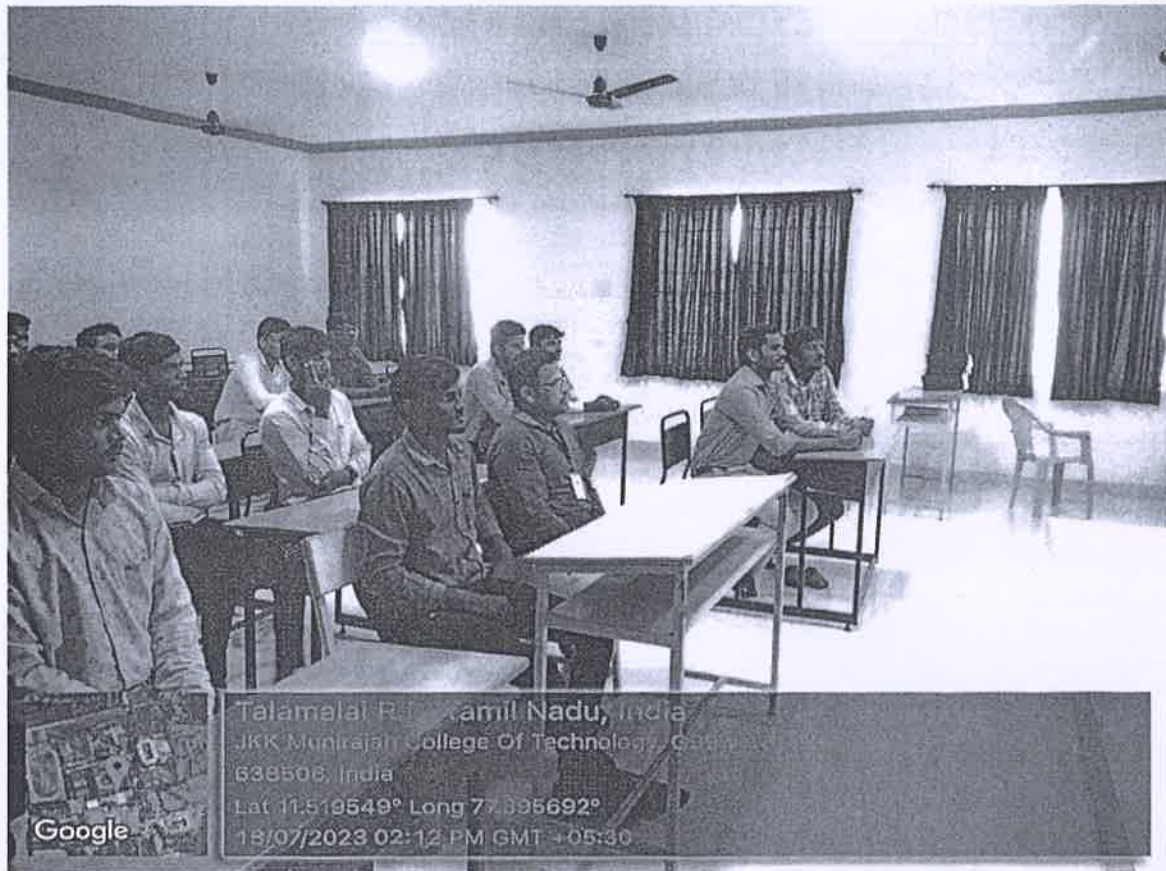
Name of Institution	JKKM COLLEGE OF TECHNOLOGY
Name of Event Organized	FACULTY DEVELOPMENT PROGRAMME
Title of the Event	<b>RECENT TRENDS IN MECHANICAL ENGINEERING</b>
Date of Event Organized	<b>17.07.2023 to 22.07.2023</b>
No of Participants	15
Venue	MECHANICAL SMART CLASS
Name of Chief Guest/Speaker	<b>Dr. V. Thanigaivelan – M.E, Ph.D.,</b> Associate Professor, SRM Institute of Science & Technology, Ramapuram Campus E-mail : thanigailav@gmail.com

### Description/Conclusion:

Mechanical engineering is at the forefront of technological transformation, addressing critical challenges in efficiency, sustainability, and innovation. By adopting emerging technologies like AI, IoT, and additive manufacturing, the field is redefining traditional processes and creating smarter, more adaptable systems. Sustainability is no longer optional but a necessity, driving engineers to design solutions that balance performance with environmental responsibility. These trends are not only shaping the future of mechanical engineering but also creating a significant impact on industries, society, and the global economy.

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**



**Pic-FACULTY DEVELOPMENT PROGRAM ON RECENT TRENDS IN  
MECHANICAL ENGINEERING**

**17.07.2023 TO 22.07.2023**

**Speaker Details:**

Dr. V.Thanigaivelan M.E,Ph,D., Working as Associate Professor in SRM Institute of science & Technology at Ramapuram Campus, Chennai.

M. 

**PROGRAM CO-ORDINATOR**



**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506**



**PRINCIPAL**